



Bentley® Architecture

A comprehensive building information modeling (bim) solution for architectural design, building performance analysis and documentation.

Bentley Architecture is for team members who are responsible and or accountable for organizational and project performance. It supports all phases of the architectural workflow, from conceptual design to construction documentation, and integrates design, visualization, drawing production, and reporting of quantities and costs.

With an intuitive user interface, extensive libraries of building components, and powerful tools for modeling, drafting, and reporting, Bentley Architecture supports all phases of the architectural workflow, from conceptual design to construction documentation. Integrating design, visualization, drawing production, and reporting, Bentley Architecture is part of Bentley's BIM solution of integrated design, engineering, and management applications for the entire life cycle of constructed assets. Used on large and complex projects around the world, Bentley Architecture was specifically developed to support workgroups and distributed teams in a managed environment, allowing architects, engineers, and contractors to build as one.

BIM enables business-critical benefits over traditional computer-aided drafting (CAD), eliminates waste, significantly reduces errors and omissions, provides greater predictability of costs and performance, allows exploration of more design options, and ultimately results in better buildings.

Building Information Modeling (BIM)

Bentley Architecture automatically coordinates architectural design and construction documentation through all project phases, and manages inherent component attributes and properties significant for design, documentation, analysis, construction, and operations.

Parametric Design

Building components are parametric, allowing dimension-driven creation and modification. Rules can be defined to capture design intent, dimensional constraints, assembly relationships, and more.

Advanced and Complex Geometry

A full range of advanced solids modeling tools are provided, which allow the creation of virtually any form. Unlike

applications that use facets to emulate curved surfaces, Bentley Architecture creates truly curved and double-curved surfaces and solids for accurate construction information and smooth rendering.

Choice of 2D, 3D, or Both

The building information model can be created and manipulated in a traditional 2D plan or an advanced 3D model environment - using the same tools and interface for either.

Coordinated Drawing Production

Floor plans, sections, and elevations comply with user-definable drawing standards, such as symbology, patterning, annotation, and dimensioning, ensuring coordination and consistency across all documentation.

Comprehensive Schedules and Reporting

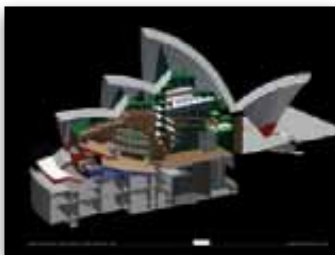
User-definable properties associated with building components are used to query the building information model, to make selective or global changes to the geometry and nongraphical information, and to generate accurate quantity and cost reports, schedules, and specifications.

Integrated Design Visualization

Powerful rendering, animation, lighting, and camera controls provide immediate visual feedback and streamline the creation of convincing presentations without the need to export data to an external visualization application.

A Managed Environment

Bentley Architecture can be integrated with Bentley® ProjectWise®, a collaboration server that manages access to project information across a LAN, WAN, VPN, or through the Internet, and publishes and synchronizes shared information, manages change, protects intellectual property rights, and more.



Sydney Opera House renovation
(Courtesy Johnson Pilton Walker/Arup)



Integrated design and visualization
(Courtesy PLH Architects)



Detailed section (Courtesy PLH Architects)

SYSTEM REQUIREMENTS

Software: MicroStation® v8.5 or higher (MicroStation® TriForma® extension)

Processor: Intel Pentium-based or AMD Athlon-based PC or workstation

Operating system: Microsoft Windows Vista, XP, Windows 2000

Memory: 128 MB RAM

Disk space: 200 MB minimum free disk space

Input device: Mouse or digitizing tablet (tablet on Windows requires WINTAB driver or Bentley's Windows Digitizer Tablet Interface)

Find out about Bentley at:
www.bentley.com

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Global Office Listings

www.bentley.com/contact

BENTLEY ARCHITECTURE AT-A-GLANCE

Building Information Modeling (BIM)

- Coordinated architectural design and construction documentation
- Relationships and associativity between architectural elements for rapid design changes
- Choice to work in 2D plans, 3D models, or both - with a single set of tools
- Work in plan, elevation, isometric, or perspective view
- Inherent component attributes and properties significant for design, documentation, analysis, construction, and operations

Parametric Design and Feature Modeling

- Dimension-driven creation and modification of building components
- Embedded parameters, rules and constraints to capture design intent
- Powerful solid modeling for easy creation of virtually any form
- Double-curved surfaces and solids for accurate construction information and smooth rendering

Coordinated Construction Documentation

- Material-dependent hatching/patterning, annotation, and dimensioning
- Room and component schedules, quantity and cost calculation, specifications
- Compatibility with office automation tools for further processing and formatting

- Coordinated creation of floor plans, sections, and elevations
- Automatic resymbolization of 3D objects to 2D symbols

Design Visualization and 3D Output

- High-end integrated rendering and animation tools including radiosity and particle tracing
- Export to STL to support rapid model making and proto-typing with 3D printers and stereo lithography machines
- Output to 3D PDF
- Support of 3D Web formats, such as VRML, QuickVision, panoramas

Support of 3D within Adobe PDF

- Create Adobe PDF documents with embedded 3D models and renderings directly from Bentley Architecture
- Include DGN and DWG drawings, project documents, renderings, and interactive and animated 3D models
- Navigate the model using hyperlinks and bookmarks

Support of International and Custom Standards

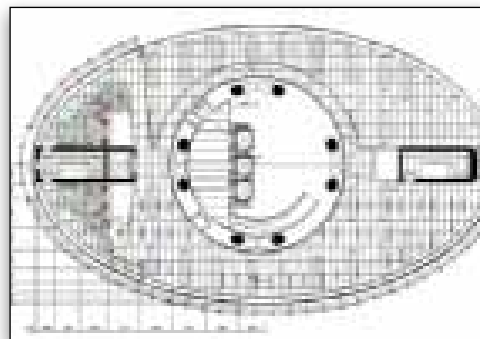
- Create, manage, verify, and enforce company and project standards
- Support for U.S. and other national CAD standards
- Support of DGN, DWG, DXF, PDF, STEP, IGES, IFC, and other major industry standards
- Viewing of ADT multiview blocks

Interoperability with Building Engineering, Analysis and Facilities Management

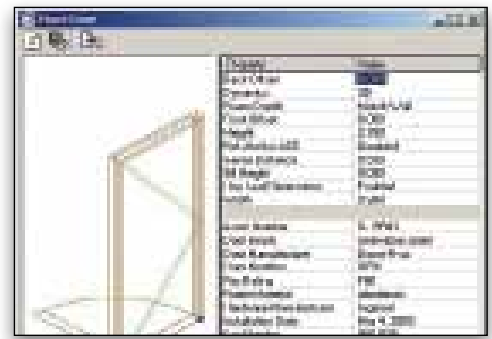
- Fully integrated with Bentley Structural, Bentley Mechanical Systems, Bentley Building Electrical Systems™, Bentley Facilities, and more
- A shared multidisciplinary model for team collaboration and coordination
- Review and manage interferences across multiple files and disciplines in conjunction with Bentley Interference Manager
- Simulated construction schedules in conjunction with Bentley Navigator and project management applications, such as Microsoft Project or Primavera P3

Integration with Managed Environment

- Fully supported in Bentley ProjectWise, Bentley's comprehensive collaboration server



Floor plan extracted from BIM model
(Courtesy PLH Architects)



Parametric objects with user-definable properties