

In Autodesk Revit Building every schedule, drawing sheet, 2D view, and 3D view is a direct presentation of information from the same underlying database. As you and your team work on the same building information, Autodesk Revit Building automatically coordinates changes across all other representations of the project.

Change it. Change everything.

Autodesk Revit Building. It's just a better way of working.

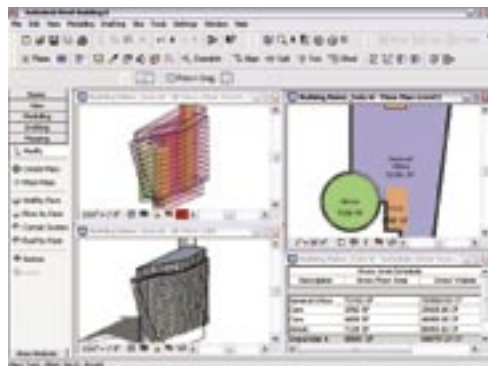
Work naturally, design with freedom, and improve your business with Autodesk® Revit® Building 8.1, the state-of-the-art building information modeling system that works the way you think. Revit Building mirrors the real world of architecture by letting you work on buildings holistically, rather than in terms of separate floor plans, sections, and elevations. And with its parametric change technology, you can make any change, anytime, anywhere, and Revit Building automatically coordinates the change everywhere in your project—model views, drawing sheets, schedules, sections, plans, and renderings—you name it. Your design and documentation stay coordinated, consistent, and complete.

Works the Way You Think

With Autodesk Revit Building, you get back to what you love: designing buildings, without your software getting in the way. Work in any view that makes sense, maintain the ability to design throughout different design phases, and quickly and easily make changes to major design elements. Create comprehensive design proposals in record time. See your ideas realized on the fly with 3D views and instant shadows. You can even make late-stage changes without worrying about coordinating your plans, schedules, and construction documents. You design it; Revit Building documents it.

ENHANCED Autodesk Revit Building Maker

Access a better workflow for common conceptual and schematic tasks. Easily create expressive forms to produce an overall massing study. Import ACIS® or NURBS models from other applications, and turn them into mass objects in Autodesk Revit Building. Then select faces to design walls, roofs, floors, and curtain systems. You can even use tools to extract important information such as gross area per floor.



Project Browser

Project-wide browser reduces the time needed to manage and navigate the various views, families, groups, renderings, and sheets of the project. Reorganize the project browser's Views and Sheets sections to match your desired project organization.

Live Building Sections and Elevations

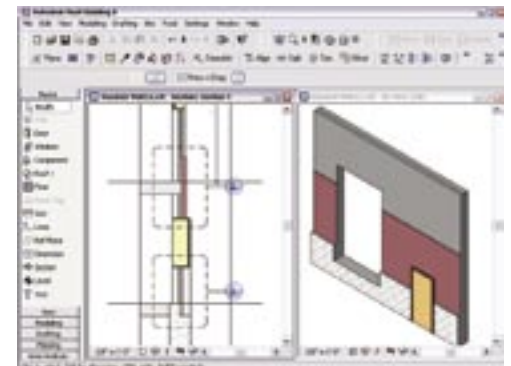
Sections and elevations are computed on demand in a fraction of the time required to draw the sections by hand or with traditional CAD. Work in any appropriate view of the building, including sections and elevations.

ENHANCED Curtain Walls

Flexible, intuitive curtain wall tools make designing any curtain wall easy.

Stacked Walls

Ideal for cases where wall thickness changes as the wall steps up the building, stacked wall types can be composed of walls with different widths.



Having this real-time analysis tool allows us to better serve our clients with accurate and completely coordinated design documentation and building information. This naturally affords us more time and better information to explore quality design solutions.

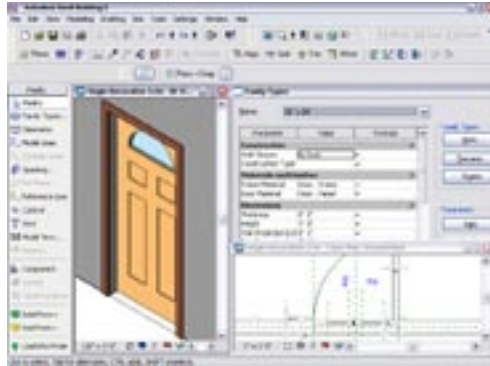
— Steven J. Brittan, Principal,
Burt Hill Kosar Rittelmann Associates

ENHANCED Autodesk Revit

Parametric Components

Autodesk Revit Parametric Components offer an open, graphical system for design thinking and form making, which is a powerful way of expressing design intent at increasingly detailed levels.

Parametric Components can be used for the most elaborate assemblies—including intricate iterative, algorithmic, and behavioral characteristics—as well as the most elementary building parts. Best of all, no programming language or coding is required.



ENHANCED Family Editor

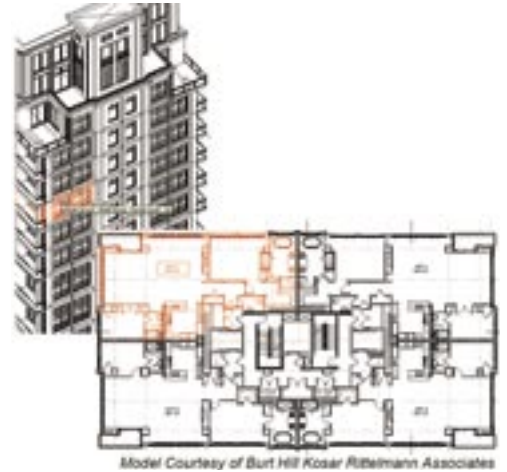
The Family Editor is a graphical editing mode that allows you to create families to include in your project. Use this tool to easily create or customize just about anything, including doors, windows, and annotation types and load them directly into your open project.

Sketch Tools

Available via the Sketch Toolbar, you can add more detail to your design or customize existing building components with tools ranging from simple geometry, such as lines, circles, and arcs, to more freeform geometry, such as splines.

ENHANCED Parametric Modular Design

Enhanced Parametric Modular Design groups better support-repeating units, which is ideal for designing specific building types such as offices and hotels.



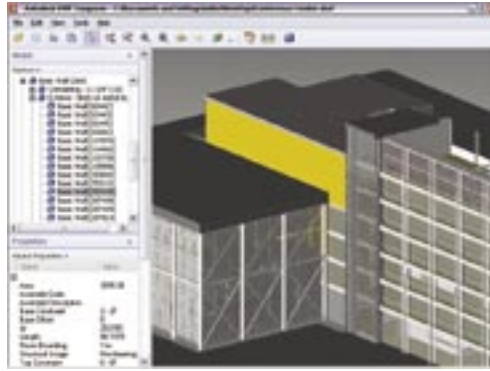
Better Coordination and Quality

Ever feel like you spend too much time updating documents, correcting mistakes, or chasing down coordination errors? Not any more. With Autodesk Revit Building's parametric change management, you can coordinate your entire project effortlessly; enhance client communications and accelerate decision making; get timely feedback on project design, scope, schedule, and budget; all while minimizing the costly mistakes and wasted effort that come from coordinating documents by any other means.

We can use Autodesk Revit Building to generate half a week's CAD work in less than a day.
— Robert Cox, Design Technology Manager
ArchitecturePlus International

ENHANCED Composer and 3D DWF Integration

Autodesk Revit Building supports complete round-tripping of markups with Autodesk® DWF™ Composer software. Because the DWF Composer markup capabilities combine with Revit Building navigation and revision management capabilities, tracking changes is easy. There's no need to reenter information. Publishing a Revit Building model to 3D DWF format is also supported. This capability provides high-impact, dynamic communication of 3D design information in a lightweight format. It's great for including nontechnical participants in the project review process.



Bidirectional Associativity

This feature means all changes to any part of the building need to be made only once. It also supports annotation decisions, such as a changed sheet scale properly resizing all annotations and graphics.



Auto-Dimensioning

With this feature you can modify geometry by typing a new number, saving time during iterative design processes.

ENHANCED Schedules

Schedules are computed on demand. This dramatically reduces the time to create and edit schedules. Work in any appropriate view of the building, including schedules. Changing schedules makes the appropriate geometric changes in the model. Functionality includes associative split-schedule sections, selectable design elements via schedule views, formulas, and filtering.

ENHANCED Schedule Nested Component Families

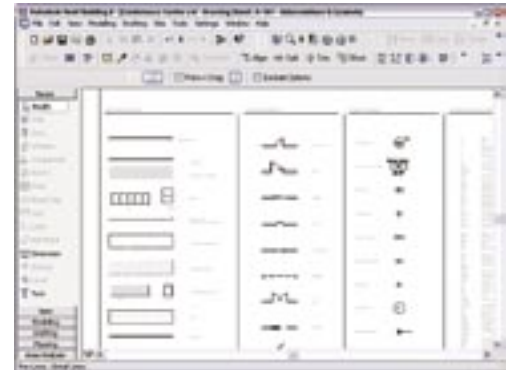
Create families (such as a door) with nested components (such as various hardware sets) and accurately specify and schedule them.

NEW Schedule Elements in Linked Models

Create schedules that will read elements in linked folders.

Legends

A Legend View allows the creation of symbol legends without adding elements to a project. Any model or system family element can be displayed. A single legend view can be placed on many sheets.



Revision Tables

Revit Building provides a comprehensive revision mechanism including a Revision Table. Revision Clouds are associated to a specific Revision from the table. Revision Numbering can be either project-wide or sheet-specific. Revisions used on a sheet will be displayed in a Revision Schedule on the title block.

Revision Clouds

Revision Clouds provide a way to bubble changes on construction documents. Revision Clouds are associated to the revision number, for increased efficiency in tagging.

From our staff's point of view, there is greater collaboration on projects. We are spending more time becoming better architects and less time learning CAD.

— Jim Hanna, Principal, NCG Architects Inc.

ENHANCED Interference Check

Interference Check allows you to set parameters to scan your model for problems with elements interfering with each other.



Automatic Sheet Drawing References

The functionality means that no section, elevation, or callout will reference the wrong drawing or sheet and all data and graphics, details, schedules, drawings, and sheets in the drawing set are current and coordinated.

Integrated Building Materials

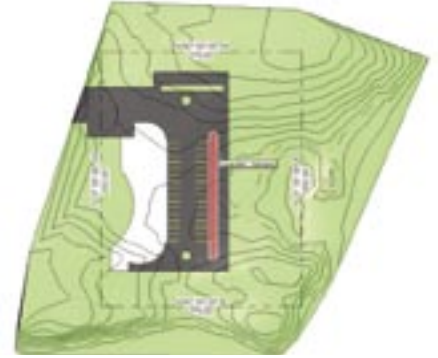
Real-world materials drive detailed plan, section, and elevation representations of building components to save documentation time. The integrated raytracing and radiosity engine uses the same materials, saving time and effort when producing visualizations.

Integrated Project Phasing

Project phasing reduces the amount of time required to create renovation and planning documents.

ENHANCED Subregion Tools

Subregions are areas hosted by toposurfaces. They can be moved and edited, and they have names, materials, and areas. They appear in toposurface schedules.



Site Terrain Surfaces

Provides site context for the building and creates all ground lines and hatch patterns in sections and elevations, saving time and minimizing tedious hatching chores.

Better for Your Business

Clients never expect less—they always want more. With Autodesk Revit Building's timesaving workflow, you exceed their expectations by delivering more-complete documents and higher-quality designs. Win more business with clear and complete presentations. Integrate better with the other Autodesk products in your workflow. And streamline your processes—whether you're going it alone or collaborating with a large team. With Revit Building, you keep your clients coming back again and again.

With Autodesk Revit Building our clients see us as a leader in using technology to deliver a better product and higher level of service.

— Robert Smedley, AIA, Project Design Manager, DMJM Design

ENHANCED Autodesk Revit Worksharing

Autodesk Revit Worksharing distributes the power of the Revit Building parametric building modeling environment across the project team. Worksharing provides a complete range of collaboration modes from entirely on-the-fly, simultaneous access to the shared model, through the formal division of the project into discrete shared units, to complete separation of project elements or systems into individually managed linked models. Worksharing allows the team to choose the best way to collaborate and interact based on their workflow and the project requirements.

NEW Autodesk Revit Structure Interoperability

Coordinate with your structural engineer using the newly released Autodesk® Revit® Structure 2 software.

NEW Coordination Monitor

Coordinate changes across linked models. Monitor changes made to important types of elements. Approve or reject changes and attach comments for review.



ENHANCED Element Borrowing

Element Borrowing improves work sharing with on-the-fly access to elements across worksets by reducing editing conflicts in multiuser work teams.

ENHANCED Multiuser Worksets

Worksets enable multiple team members to work together on the same model, while their work is fully coordinated.

ENHANCED Design Options

Develop and study multiple simultaneous design alternatives to make key design decisions. Present multiple schemes to your clients easily. Each option can be substituted into the model for visualization, quantification, and other data analysis to inform decision making.



Presentation Views

Explain your design intent better using sectional perspectives. This flexible tool complements other features in Autodesk Revit Building, including color-fills, hidden-line and shaded views, vectorial shadows, capped section boxes, and silhouette edges



Autodesk VIZ and Autodesk 3ds Max Interoperability

Use with your Autodesk® VIZ 2005 or Autodesk® 3ds Max® license to import Revit-produced 3D AutoCAD® DWG files and create stunning photorealistic interior and exterior renderings.

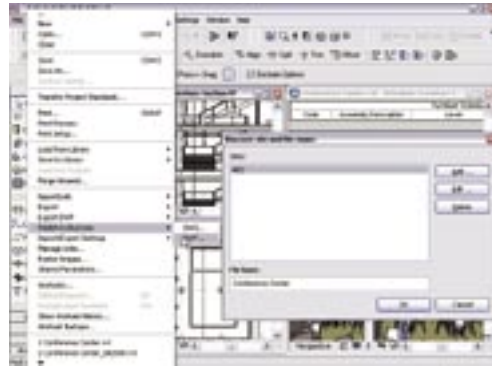


PANTONE Color Support

Integrate automatic color fills using PANTONE® Color Picker for thousands of print-coordinated color selections.

NEW Publish to Buzzsaw

The Publish to Autodesk® Buzzsaw® functionality enables you to easily upload your files from Autodesk Revit Building to your Buzzsaw project site, with functionality to allow for automatic conversion of your Revit Building files to either DWG or DWF files. With the addition of Default Template assignments you can assign properties to a view and set those properties back to their original state before publishing or printing your project.



ENHANCED Interface to External Databases (ODBC)

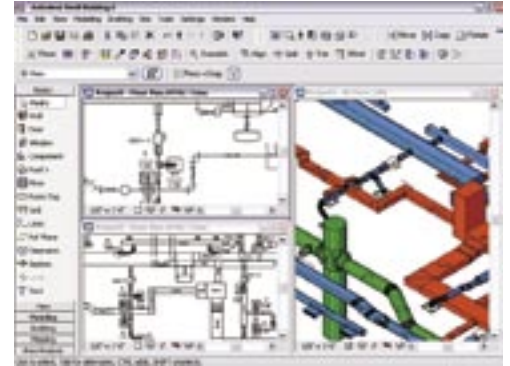
This feature enables you to output to any ODBC-compliant database product to communicate with third-party estimating, planning, procurement, and facility management tools.

Interface to Energy Analysis (gbXML)

Output to Green Building XML (gbXML) and perform energy analysis using web service from GeoPraxis, Inc.

ENHANCED Import/Export ACIS

Collaborate better with users of AutoCAD software and other CAD applications, by importing 3D solid geometry.



ENHANCED DWG/DXF/DGN Support

Autodesk Revit Building imports, exports, and links your data with the industry's best DWG compatibility. Native support for DWG, DXF™, and DGN formats assures fully compatible data exchange for smooth coordination between team members, including engineering consultants.

ENHANCED Industry Foundation Class (IFC)

Autodesk Revit Building is certified in accordance with the official AIA-facilitated approval procedure for IFC 2x2 phase 1, and is currently in the next phase of certification.