AUTODESK® **REVIT**® 2017

Design without Compromise

Built for Building Information Modeling (BIM), Revit software includes features for architectural design, MEP and structural engineering, and construction

AUTODESK.

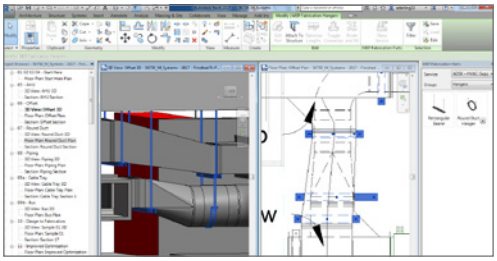
Revit 2017 connects BIM features that drive efficient processes for the extended workflow.

Revit is a single software application for architects, structural and MEP engineers and construction professionals. In the BIM process, multiple team members can work on the same project at the same time in a centrally shared model. With Revit, all disciplines involved in a building project can use the same software, putting the project at the center and connecting participants in the building design and construction process. Working on one unified platform reduces the risk of data translation errors between building disciplines and brings more predictability to the building design process.

Courtesy of KlingStubbins

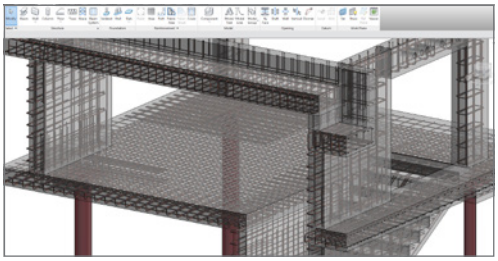
Revit for architects

Architects use Revit software to take an idea from conceptual design to construction documentation within a single software environment. Sketch freely, create 3D forms quickly, and manipulate forms interactively. The software automatically creates accurate floor plans, elevations, sections, 3D views, and more, all based on your specifications and as you design. Optimize building performance outcomes by analyzing materials, quantities, sun position, and solar effects. Generate stunning visualizations and virtual walk-throughs to effectively communicate your creative concepts.



Revit for mechanical, electrical, and plumbing (MEP) engineers

Revit software provides MEP engineers with integrated design, analysis, and documentation tools, supporting more accurate and efficient building systems projects from concept through construction. Design building systems with greater accuracy using the coordinated and consistent information inherent in the intelligent 3D model. Conduct simulations and interference detection earlier in the design process—when changes are easier and less costly to make—and help meet requirements for building systems efficiency. Use conceptual energy analysis information as a foundation for engineering-driven calculations. Model for MEP fabrication with tools to automate the fabrication model layout and to help prepare a model for detailed coordination fabrication and installation.



Revit for structural engineers

Revit software supports multidiscipline coordination of structural design documentation and helps to minimize errors and enhance building project team collaboration. Use intelligent models to evaluate conformance with building and safety regulations. Streamline the design and analysis process with the ability to create a multi-material physical model for coordination and documentation and an editable analytical model for analysis. Use intelligent models for analysis and fabrication, resulting in more accurate documentation of design intent through to construction. Connect design and detailing workflows by defining design intent for reinforcement modeling and documentation.

Revit for construction professionals

Revit® design software provides construction professionals with the tools to evaluate constructability and design intent before construction begins and to understand means, methods, and materials, and how they come together. Derive greater construction insight from design models by splitting and manipulating objects, such as wall layers and concrete pours, to more accurately represent construction methods. Prepare shop drawings for fabrication with features that give you greater flexibility in documenting assemblies of model elements.

What is Building Information Modeling?

Building Information Modeling (BIM) is an intelligent 3D model-based process that equips architecture, engineering, and construction professionals with the insight and tools to more efficiently plan, design, construct, and manage buildings and infrastructure. Autodesk Revit software is purpose-built for BIM.

Learn more about Autodesk solutions for BIM **http://www.autodesk.com/solutions/bim/overview**

Courtesy of KlingStubbins

Benefits of Revit software:

- Use BIM tools for intelligent 3D model–based design
- Create high-impact visuals that help win business by more effectively communicating design intent
- Gain greater downstream visibility earlier in the process, helping to reduce gaps in communication, rework, and, ultimately, time and cost
- Analyze and simulate even the most complex structures and mechanical, electrical, and plumbing (MEP) systems
- Analyze energy consumption and lifecycle costs to help design more energy-efficient buildings
- Revit sits at the center of a powerful portfolio of connected design tools. The Autodesk ecosystem of solutions connects people, processes, ideas and data and supports all phases of building information modeling

Subscriptions to Revit include access to powerful cloud services that extend the power of Revit:

- Rendering in A360: Take advantage of virtually infinite computing power to create photorealistic and high-resolution images in less time
- Insight 360: Optimize building performance with centralized access to performance data and advanced analysis engines. Visualize solar radiation on mass or building element surfaces with new solar analysis workflows in addition to understanding PV energy production. Insight 360 also harnesses the power of EnergyPlus to deliver dynamic thermal heating and cooling loads in Revit 2017
- Structural Analysis for Revit: Conduct analysis in the cloud as a part of the BIM process. Extend design models from Revit directly to the cloud for static analysis helping to minimize disruptions to workflow. Once the analysis is conducted, results can then be visualized and explored within Revit

The Autodesk Community

Join a community of design professionals the world over who rely on Autodesk software solutions. Autodesk is a leader in 3D design, engineering and entertainment software.

- Access a global community of users in online User Forums
- Learn, connect and explore at Autodesk University user conferences and online portal
- Rely on the Autodesk portfolio of industry-leading model based design tools

The Autodesk commitment to interoperability

Autodesk believes that AEC professionals need to be able to use any application from any vendor at any stage in design, construction, and operations processes. Autodesk is committed to advancing interoperability throughout the industry by supporting buildingSMART International and with Revit add-ins that enhance your ability to conform to interoperability standards and meet owner delivery requirements.

Learn more http://www.autodesk.com/campaigns/interoperability

Experience the power of Revit

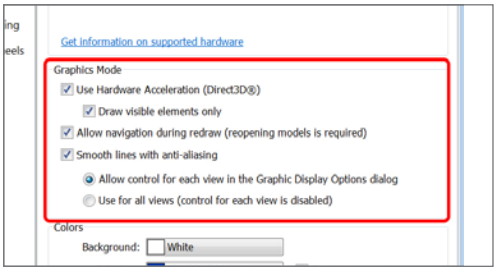
The fastest and best-performing Revit yet, Revit 2017 empowers architects, MEP and structural engineers, and construction professionals to design, build, and maintain higher-quality buildings

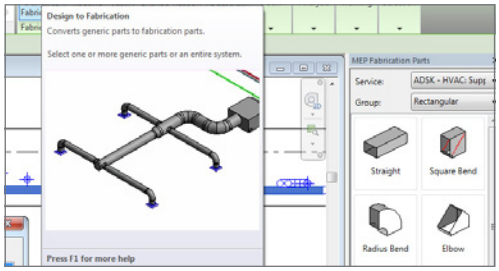
What's new

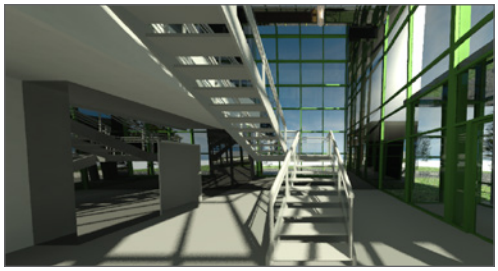
- Over 100 software performance enhancements and optimizations
- Global Parameters
- Modernized text editing and layout controls
- Tools to automate MEP fabrication model layout
- Family-based rebar reinforcement connectors
- IFC4 support

Benefits

- Navigate views in large models up to four times faster
- Software processes sped by behind-the-scenes optimizations
- Include more detail in models
- Communicate better with improved data sharing and text editing
- Add depth and pop to elevation and section views
- Render more quickly with Raytracer rendering engine







Work Faster

Revit 2017 is the fastest and best-performing release yet. Behind-the-scenes optimizations and improvements to more than 100 functions help the software keep up with the most demanding users. More operations running with multi-threaded capabilities improve overall software performance by as much as 20%. View refresh and user navigation is up to 4.5 times faster than before.

Get more into—and out of—a Revit model

Revit 2017 gives users tools to create models that even more accurately and completely represent what will ultimately be built, connecting design and fabrication workflows. The Global Parameters feature helps encode and capture design intent within a model by enabling users to define relationships between building elements and to use parameters to drive dimensions and values across a project. With Revit 2017 designers can include the higher level of detail needed for downstream fabrication and building, modeling projects of any size and complexity.

Communicate better

Document a project's details more effectively with the new WYSIWYG Text Editor and options for text placement. Revit 2017 elevates communication capabilities in ways that help users to share data both within Revit and in extended BIM workflows. Revit 2017 is one of the first BIM tools to support IFC4. With the new Autodesk® FormIt® 360 Converter provided with Revit, users can convert FormIt, Revit Families (RFA), and Sketchup (SKP) files and continue to develop designs in Revit. When it comes to communicating design intent with compelling 3D visualizations, add depth and pop to elevations and with the new Depth Cueing option. Render more quickly and accurately with Autodesk® Raytracer rendering engine, the default visualization engine in Revit 2017.

Learn More or Subscribe

Access specialists worldwide who can provide product expertise, a deep understanding of your industry, and value that extends beyond your software.

Learn more about Revit at **www.autodesk.com/products/revit-family/overview.**

To license Autodesk® Revit® software, contact an Autodesk Authorized Reseller. Locate a reseller near you at **www.autodesk.com/reseller.**

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