Autodesk® Building Design Suite 2015 Premium and Ultimate Editions

What’s New in Autodesk® Revit® 2015
New features and enhancements


Platform & architectural enhancements
- Sketchy lines
- Anti-aliasing improvements
- Ray trace usability improvements
- Enhanced schedules/material takeoffs
- Views on sheets
- Duplicate views
- View references
- Assembly code settings
- IFC imports
- Keynoting settings
- Shared parameters in view titles
- Enhanced hidden lines
- Revision improvements
- Images in schedules
- Building element analysis
- IFC linking
- Manage links dialog
- Pinned element enhancements
- Family parameter order adjustments
- Tooltips for family parameters
- Tag improvements
- Assembly code setting

Structural engineering enhancements
- Reinforcement numbering
- Single fabric sheet placement
- Presentation rebar sets
- Enhanced multi-rebar annotation
- Greater accuracy of as-built model definition
- Structural section properties

Mechanical, electrical, and plumbing (MEP) engineering enhancements
- Calculation methods for pressure drop
- Tapped duct and pipe tags
- Electrical API enhancements
- Japan Autodesk® Revit® MEP software electrical content
- US AWWA content
Platform & for architects
Architectural enhancements
Autodesk® Revit® 2015

- Visualization tools
  - Sketchy lines
  - Anti-aliasing improvements
  - Ray trace usability improvements

Create hand-drawn and near-photorealistic content from your project
Platform enhancements
Autodesk® Revit® 2015

- Documentation tools
  - Enhanced schedules/material takeoffs
  - Views on sheets
  - Duplicate views
  - View references

Improve schedule documentation with images and enhanced views
Platform enhancements
Autodesk® Revit® 2015

- Documentation tools
  - Assembly code settings
  - IFC imports
  - Keynoting settings
  - Shared parameters in view titles

Improve visual fidelity and performance
Platform enhancements
Autodesk® Revit® 2015

- Enhanced hidden lines
  - New parameter to control the visibility of hidden lines
  - Display all hidden lines automatically

Create more accurate and readable documentation
Platform enhancements
Autodesk® Revit® 2015

- Revision improvements
  - Deletion of revisions
  - More tools to sketch the revision cloud shape
  - Minimum arc length for revision clouds

Gain greater control of changes in your project documentation
Platform enhancements
Autodesk® Revit® 2015

- Images in schedules
  - Image instance property
  - Type image type property

Improve documentation using images to graphically represent Revit elements
Platform enhancements
Autodesk® Revit® 2015

- Building element energy analysis*
  - Improved algorithm
  - Greater analytical surface precision
  - Better handling of Revit elements

Gain greater precision, handling, and recognition of your energy analytical model

*Web-based energy analysis is available to Autodesk Subscription customers of editions of suites which contain Autodesk Revit software during the term of their Subscription.
Platform enhancements
Autodesk® Revit® 2015

- IFC linking
  - New Link IFC tool
  - IFC tab in Manage Links dialog box
  - Ability to reference IFC geometry without overhead of conversion to Revit
  - Improved geometry handling and performance

Collaborate more effectively with enhanced interoperability between technologies
Platform enhancements
Autodesk® Revit® 2015

- Manage Links dialog box
  - Add from Manage Links
  - Revit models
  - CAD files
  - Point clouds

Improve productivity and efficiency with better control to manage links
Platform enhancements
Autodesk® Revit® 2015

- Pinned elements enhancements
  - Prevent pinned elements from being deleted
  - Delete elements by unpinning them first
  - Delete objects in a non-graphical context

Better control the behavior of pinned elements
Platform enhancements
Autodesk® Revit® 2015

- Family parameter order adjustment
  - Move parameters within parameter group
  - New parameters added to end of group
  - Customer request

Improve control of family parameter orders to help meet company standards for better efficiency
Platform enhancements
Autodesk® Revit® 2015

- Tooltips for family parameters
  - Customize tooltips
  - Write intended use, key info, etc.
  - 250 characters

Improve learnability by customizing tooltips for Revit family parameters
Platform enhancements
Autodesk® Revit® 2015

- Tag improvements
  - Consistency with text leaders
  - New parameter 'Elevation at Top'

Greater consistency and accuracy of project documentation
For structural engineers
For structural engineers
Autodesk® Revit® 2015

- Enhanced analytical model
  - Display local coordinate system (LCS) widgets
  - Loads and boundary conditions orientation according to LCS
  - Improved analytical links

More flexibility and usability for analytical model visibility and adjustments
For structural engineers
Autodesk® Revit® 2015

- Reinforcement for parts
  - Surface part elements can host rebar
  - Rebars follow parts’ shapes and changes
  - New parameters ‘Can-host-rebar’ for parts and ‘Host category’ for reinforcement

Enhanced design-to-fabrication workflow for precast
For structural engineers
Autodesk® Revit® 2015

- Reinforcement numbering
  - Numbering automation & customization
  - Annotating for shop drawings
  - Rebar scheduling
  - Pouring sequencing

More accurate schedules and shop drawings
For structural engineers
Autodesk® Revit® 2015

- Single fabric sheet placement
  - New tool in the Reinforcement panel
  - Manual positioning
  - Ability to extend outside of the host cover and edges

Greater flexibility in modeling and precise placement of reinforcement
For structural engineers
Autodesk® Revit® 2015

- Presentation for rebar sets
  - Showing a representative subset
  - Different bar presentation for a rebar set in each separate view

More accurate and readable reinforced concrete shop drawings
For structural engineers
Autodesk® Revit® 2015

- Enhanced multi-rebar annotation
  - Grouping and sorting
  - Annotation update

Greater support of reinforced concrete documentation
For structural engineers
Autodesk® Revit® 2015

- Greater accuracy of as-built model definition
  - Location line visibility
  - Graphical justification
  - Shape handles & snapping improvements
  - Setback improvements
  - Switching on/off Auto-Join

Better interoperability with steel detailing software
For structural engineers
Autodesk® Revit® 2015

- Structural section properties
  - Catalog profiles
  - More accurate quantities
  - Analysis and code check directly from Revit models

Improved integration of simulation products within BIM workflows
For MEP engineers
MEP engineering enhancements
Autodesk® Revit® 2015

- Calculation methods for pressure drop
  - Haaland equation
  - Colebrook equation
  - Duct and pipe
  - Specify calculation method

Promote greater accuracy when calculating pressure drop using Haaland or Colebrook equations
MEP engineering enhancements
Autodesk® Revit® 2015

- Tapped duct and pipe tags
  - Tag values before / after tap
  - Actual value based on location
  - Multiple values in tag

Tag duct or pipe with more accurate numerical values along length
 MEP engineering enhancements
Autodesk® Revit® 2015

- Electrical API enhancements
  - Create wire shapes
  - Add/modify wire properties
  - Remove vertices

Create all wire shapes available in the UI, via the API
MEP engineering enhancements
Autodesk® Revit® 2015

- Additional country-specific content
  - US AWWA content
  - Japan MEP electrical content

Improve project design with content that is based on US & Japan industry standards