

New features and enhancements

Autodesk® Revit® 2015, Autodesk® Revit® Architecture 2015, Autodesk® Revit® Structure 2015, & Autodesk® Revit® MEP 2015

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

- Enhanced analytical model
- Reinforcements for parts

- 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



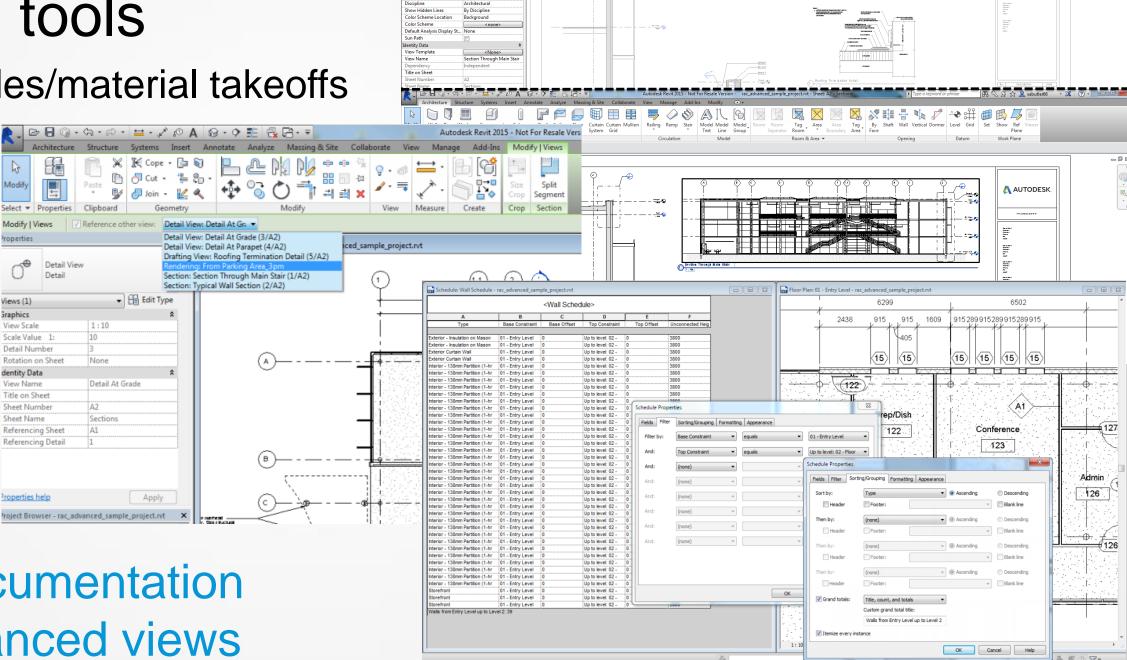
Create hand-drawn and near-photorealistic content from your project



Autodesk® Revit® 2015

Documentation tools

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



Improve schedule documentation with images and enhanced views



Autodesk® Revit® 2015

Documentation tools

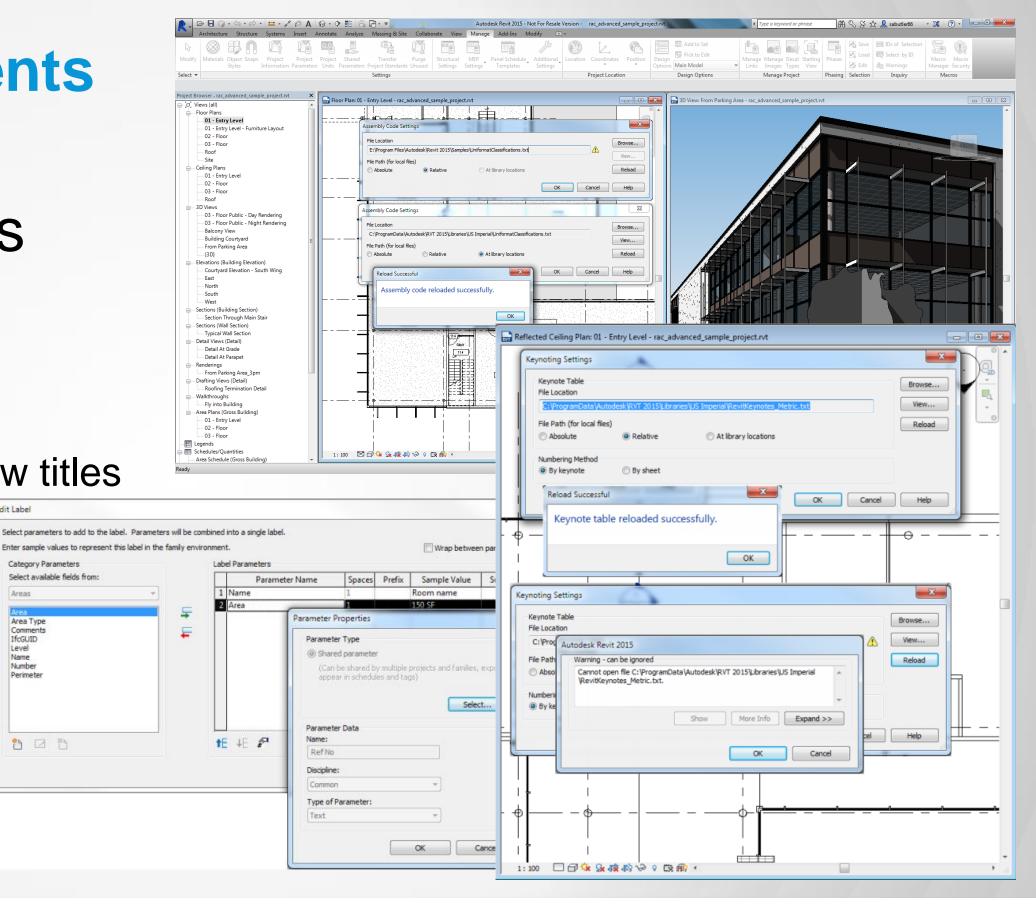
- Assembly code settings
- IFC imports
- Keynoting settings
- Shared parameters in view titles

Category Parameters

Area Type Comments

* D *

Improve visual fidelity and performance





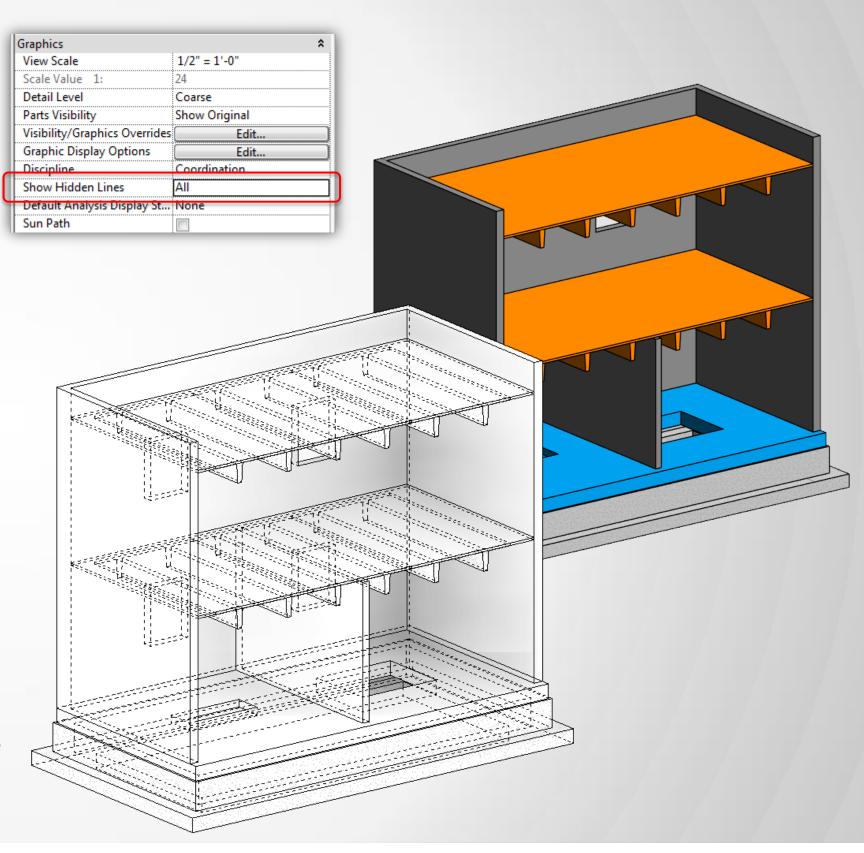
Autodesk® Revit® 2015

Enhanced hidden lines

 New parameter to control the visibility of hidden lines

 Display all hidden lines automatically

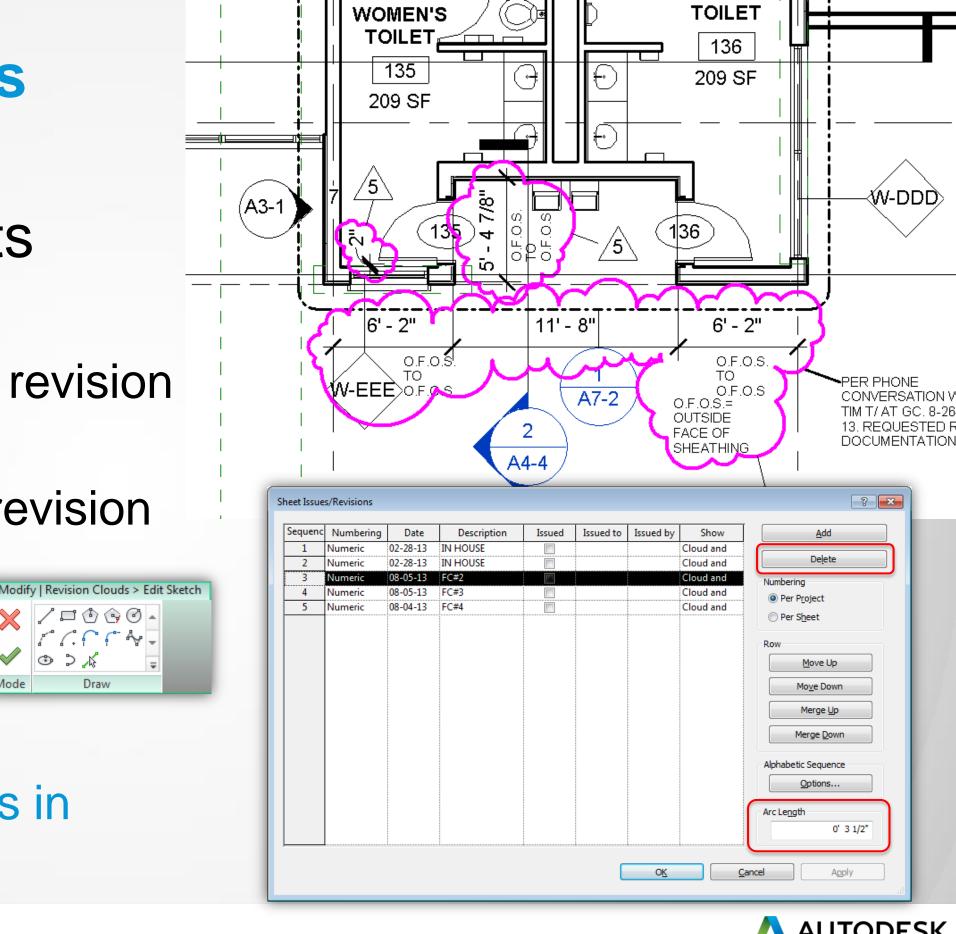
Create more accurate and readable documentation



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

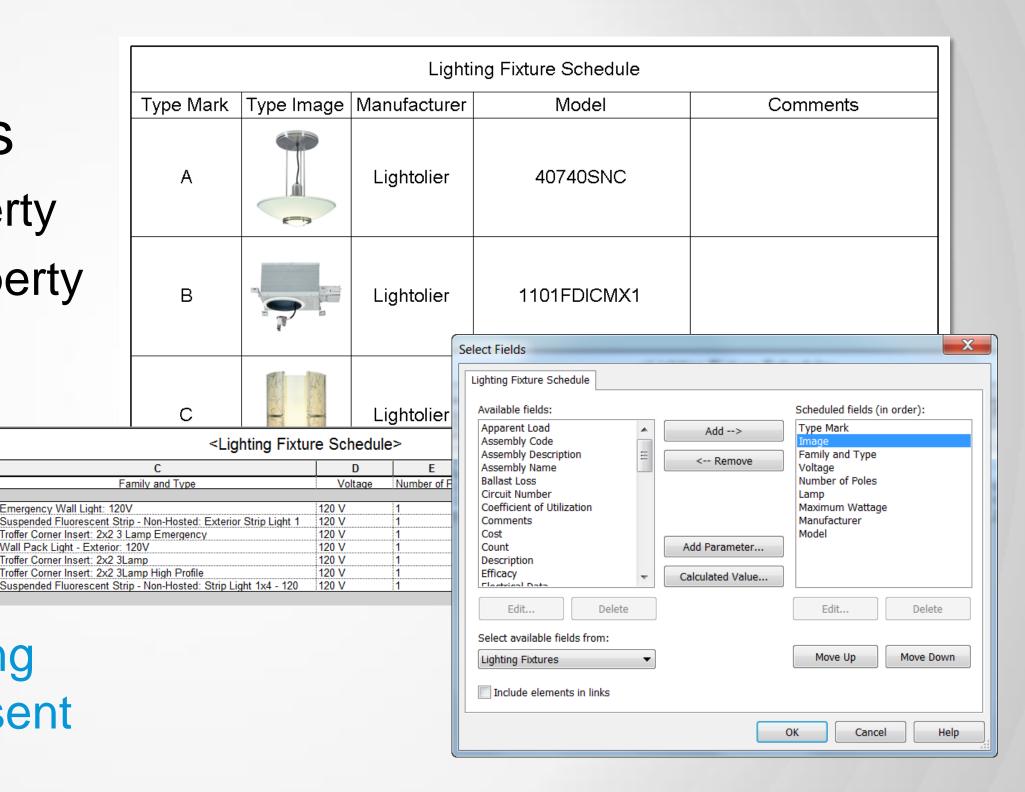




Autodesk® Revit® 2015

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

Type Mark



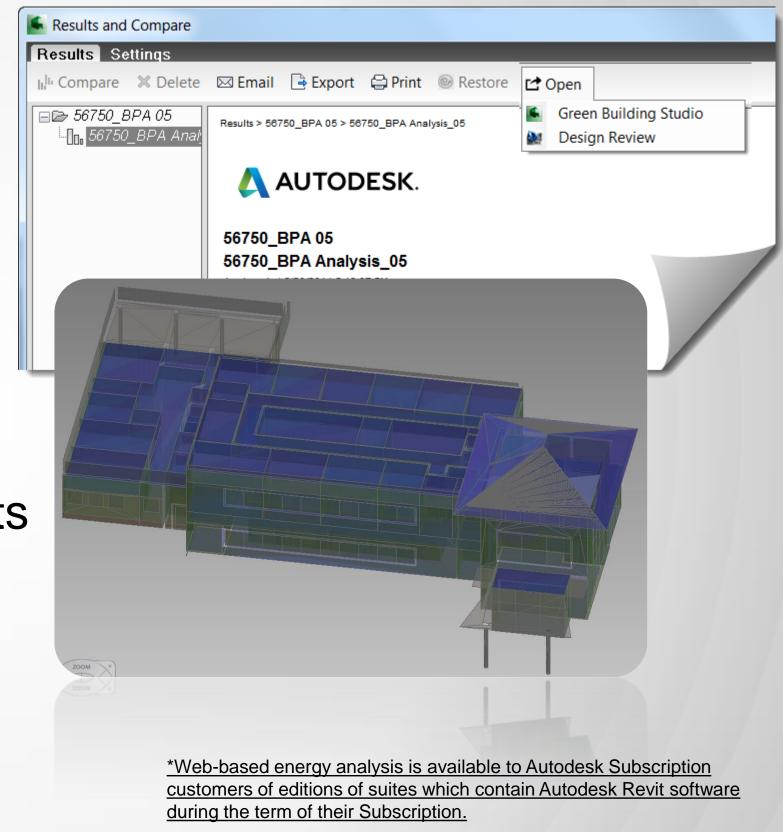
Improve documentation using images to graphically represent Revit elements



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

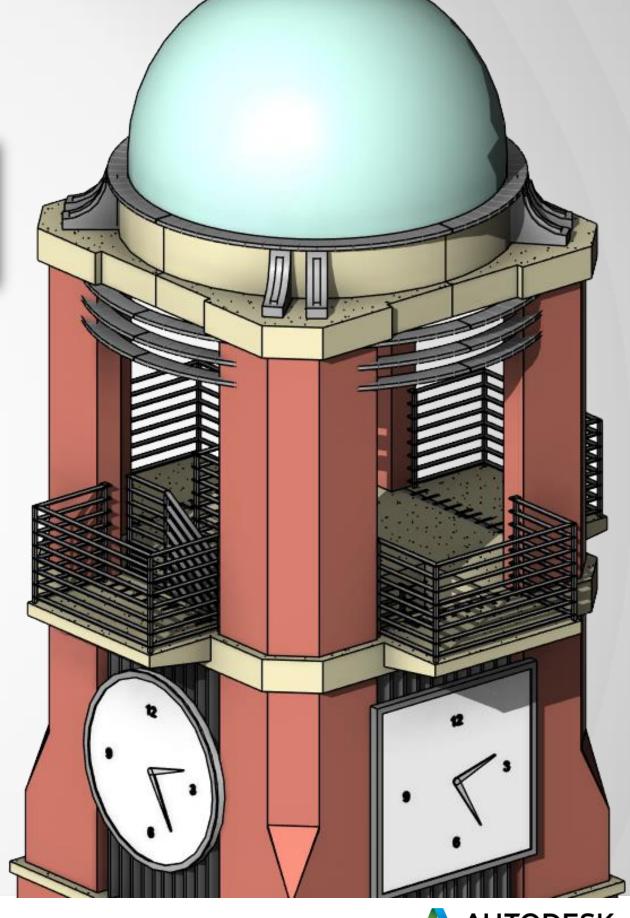




Autodesk® Revit® 2015

- 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

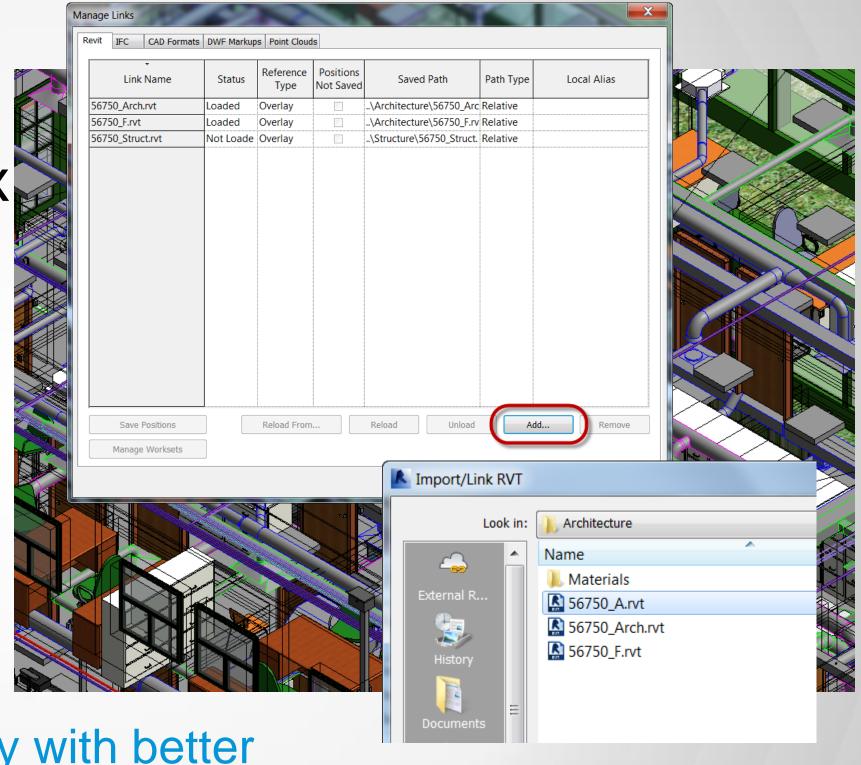
Collaborate more effectively with enhanced interoperability between technologies





Autodesk® Revit® 2015

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



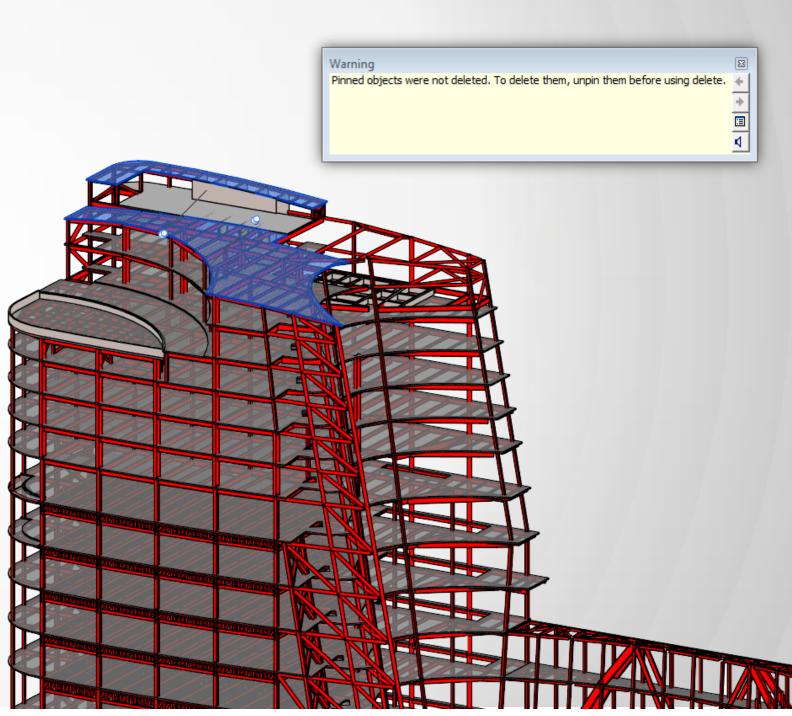
Improve productivity and efficiency with better control to manage links



Autodesk® Revit® 2015

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

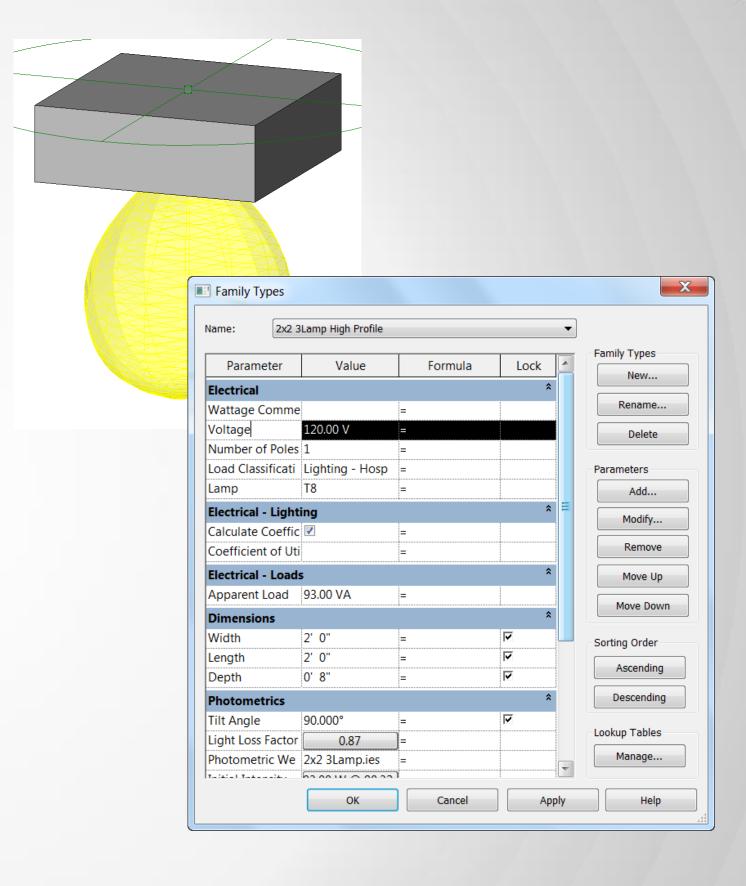
Better control the behavior of pinned elements



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





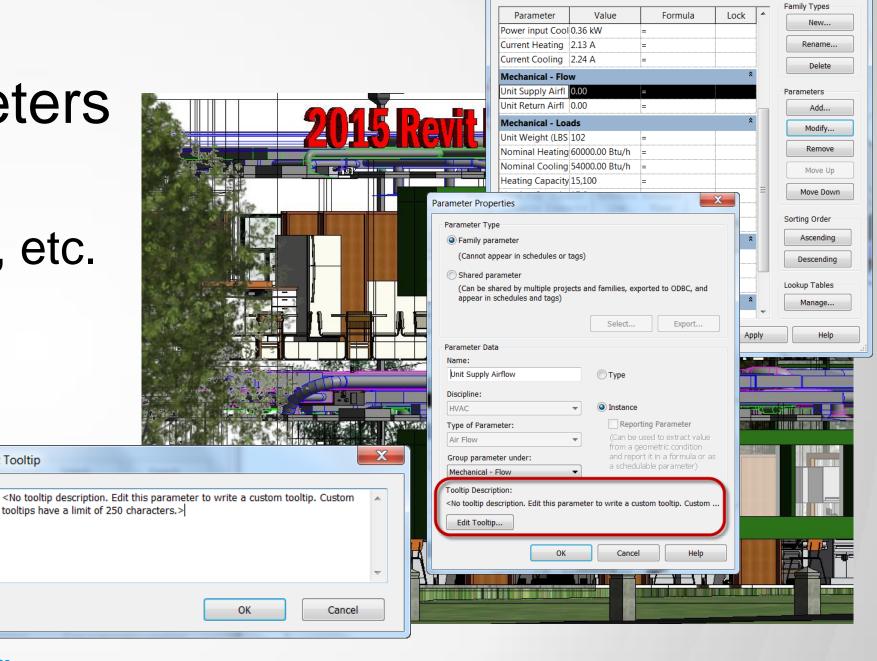
Autodesk® Revit® 2015

Tooltips for family parameters

- Customize tooltips
- Write intended use, key info, etc.

Edit Tooltip

250 characters



Family Types

PEFY-P54NMAU-E

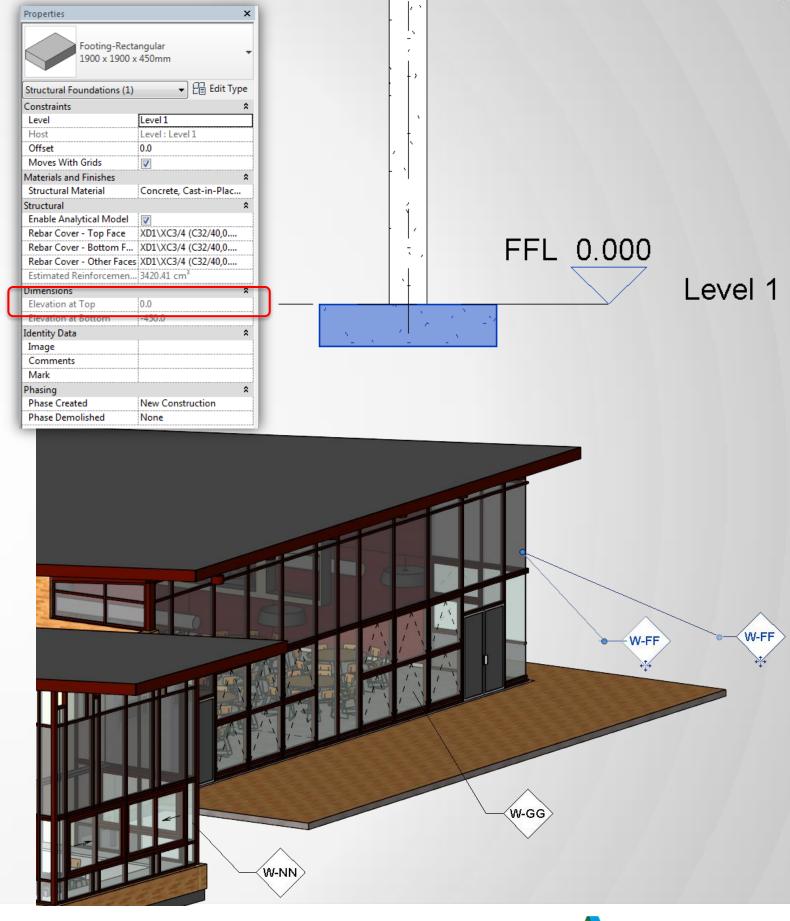
Improve learnability by customizing tooltips for Revit family parameters



Autodesk® Revit® 2015

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

Greater consistency and accuracy of project documentation



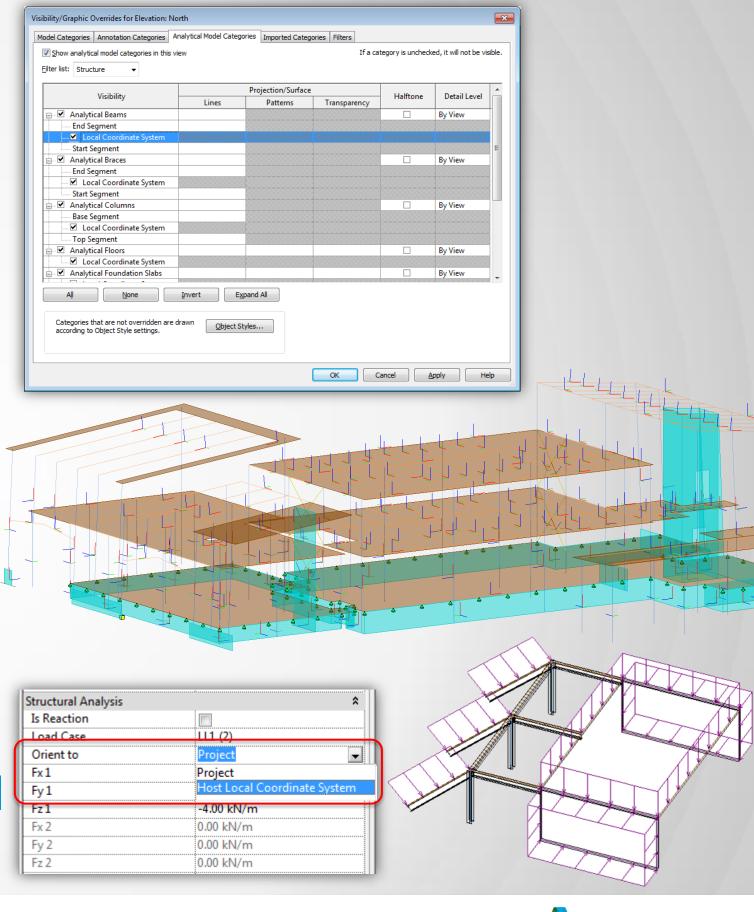




Autodesk® Revit® 2015

- 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





Autodesk® Revit® 2015

Reinforcement for parts

- Surface part elements can host rebar
- Rebars follows parts' shapes and changes
- New parameters 'Can-hostrebar' for parts and 'Host category' for reinforcement

*flow

Enhanced design-to-fabrication workflow for precast



Autodesk® Revit® 2015

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

More accurate schedules and shop drawings

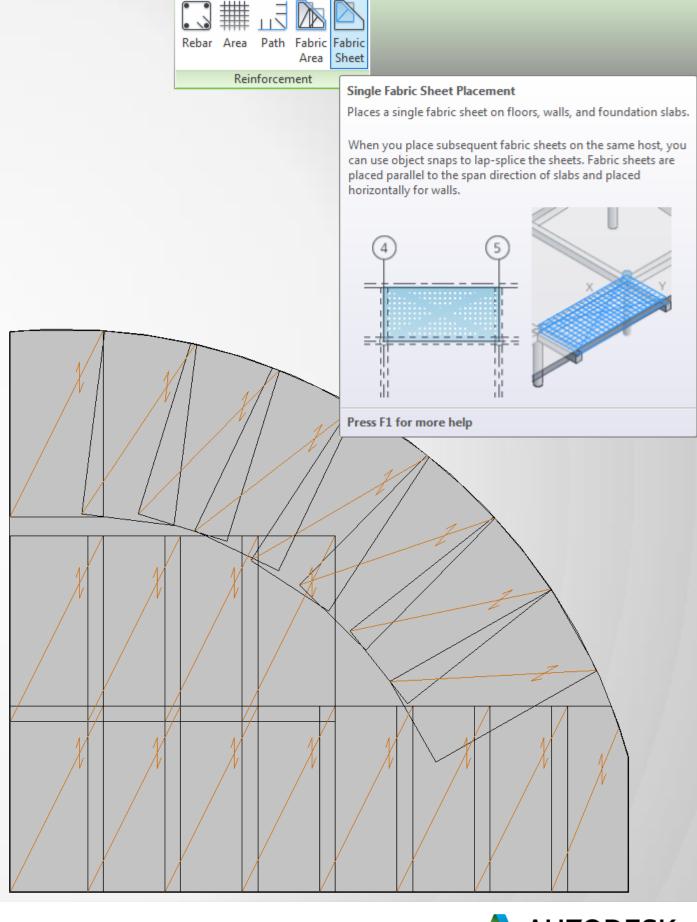




Autodesk® Revit® 2015

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

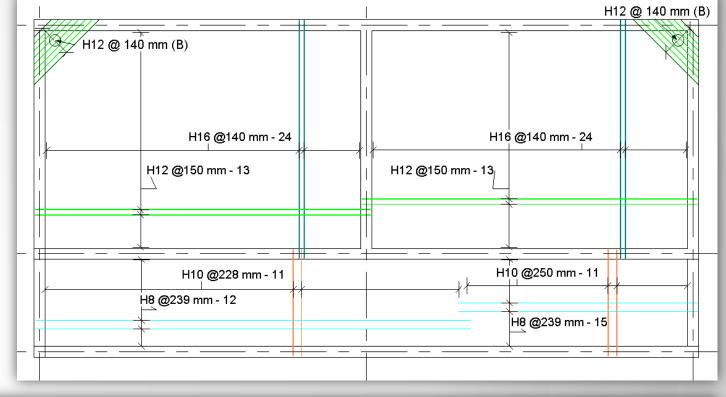
Greater flexibility in modeling and precise placement of reinforcement





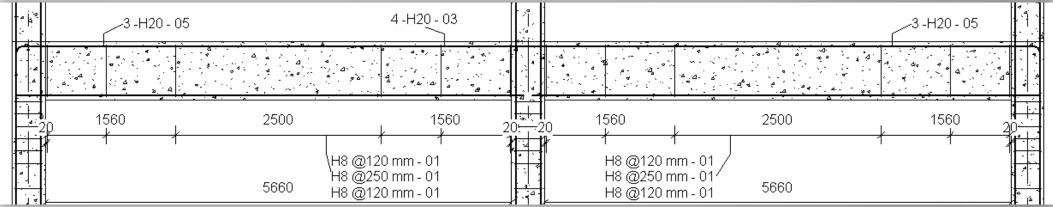
Autodesk® Revit® 2015

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



Finish Cancel

Edit Rebar Presentation



More accurate and readable reinforced concrete shop drawings



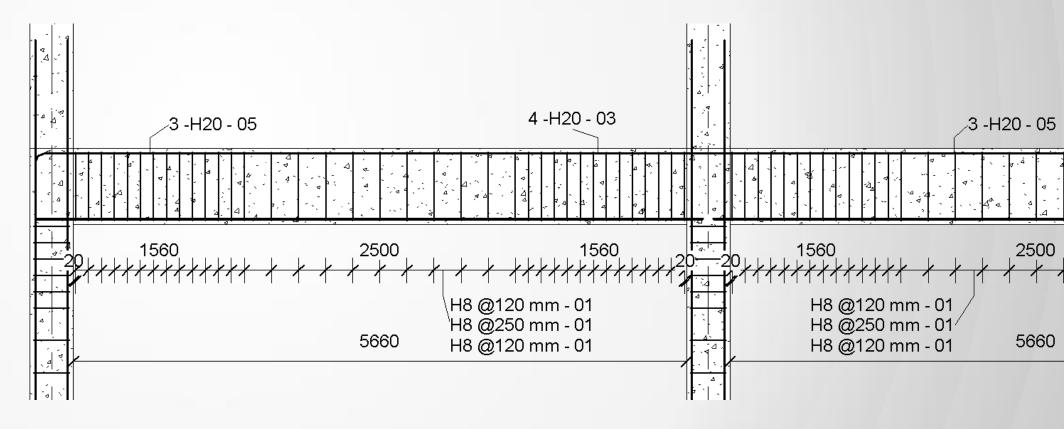
Show Select

All First and Last Middle

Presentation

Autodesk® Revit® 2015

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



Greater support of reinforced concrete documentation

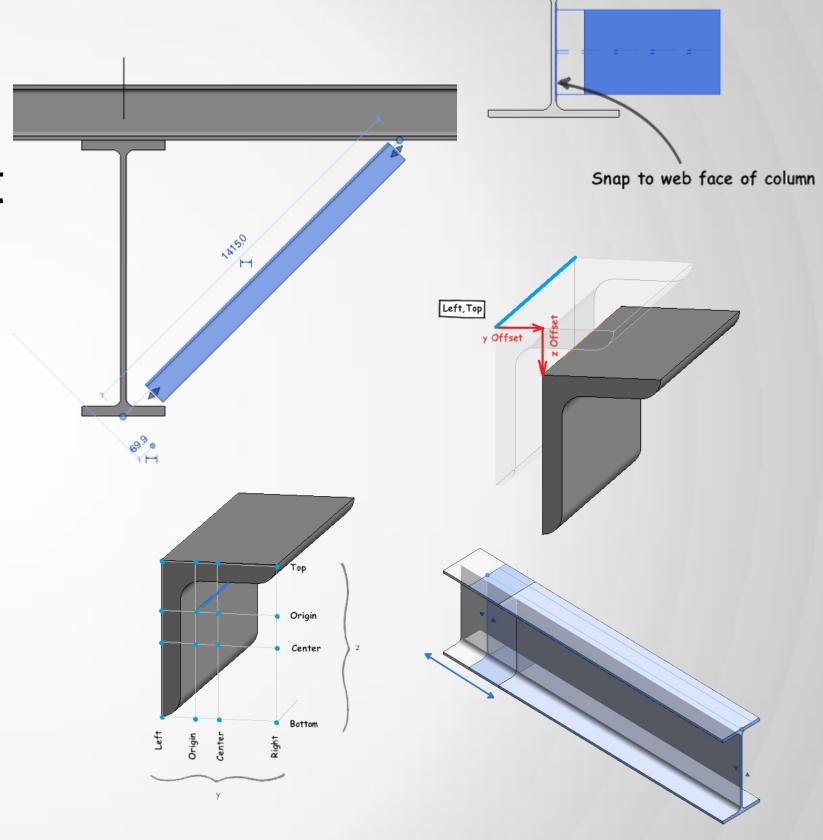


Autodesk® Revit® 2015

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

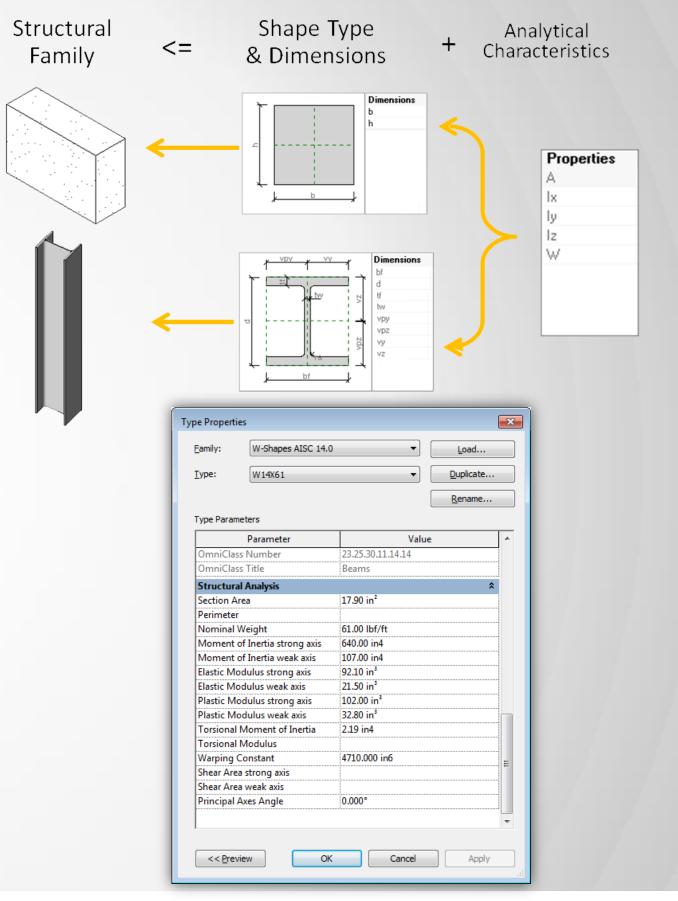




Autodesk® Revit® 2015

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

Improved integration of simulation products within BIM workflows





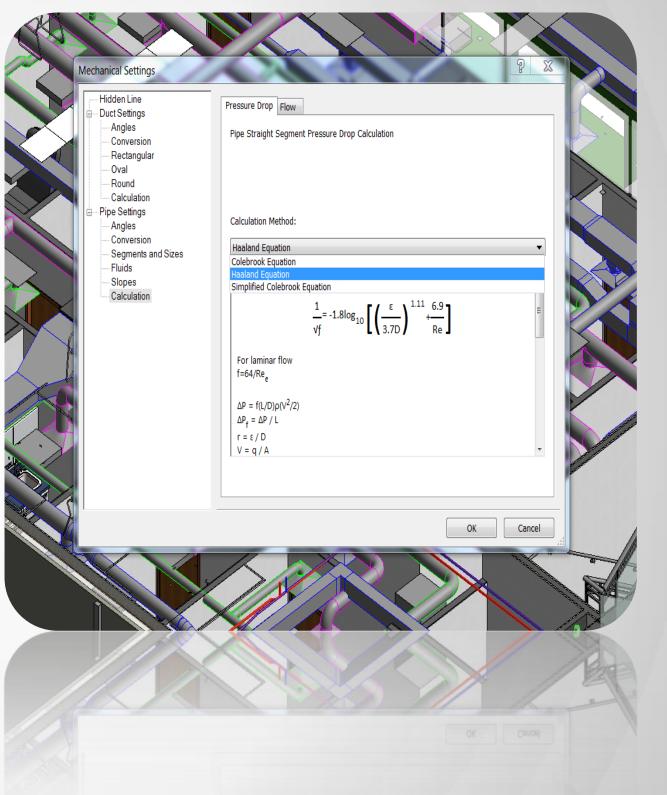
For MEP engineers



Autodesk® Revit® 2015

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

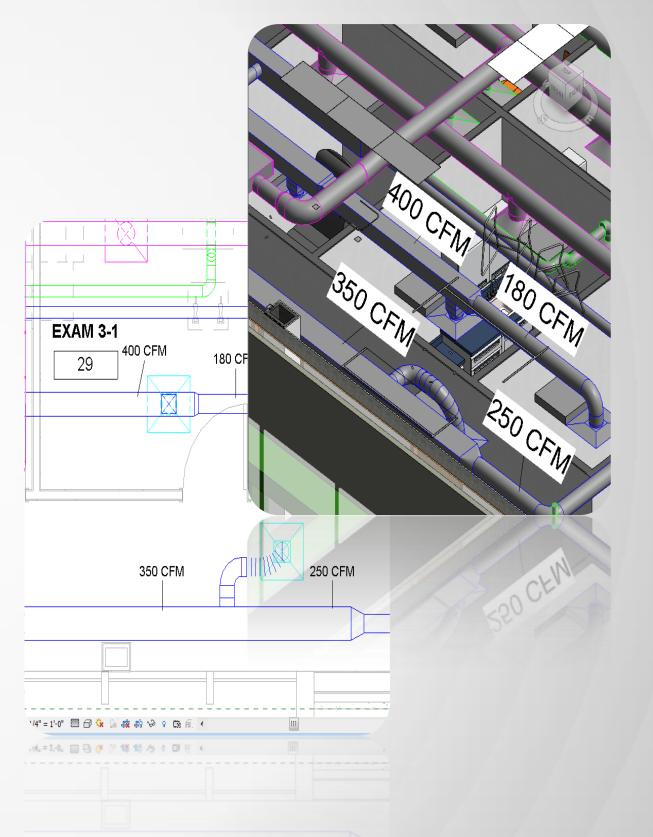
Promote greater accuracy when calculating pressure drop using Haaland or Colebrook equations



Autodesk® Revit® 2015

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

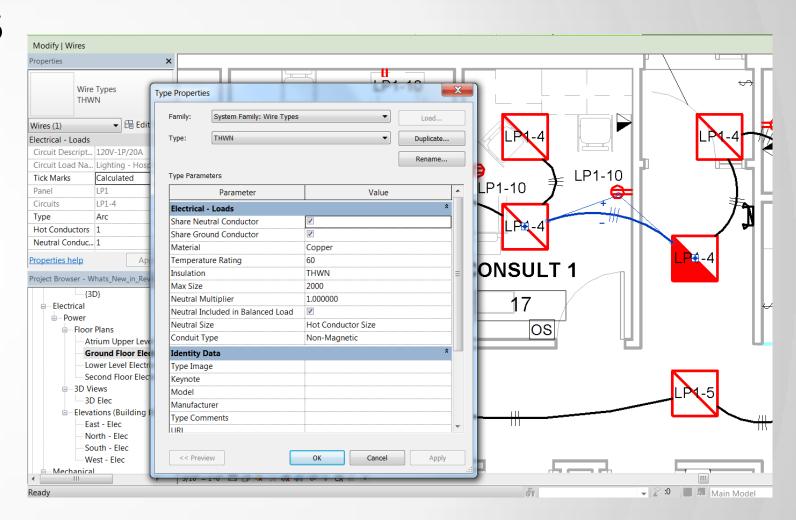
Tag duct or pipe with more accurate numerical values along length





Autodesk® Revit® 2015

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

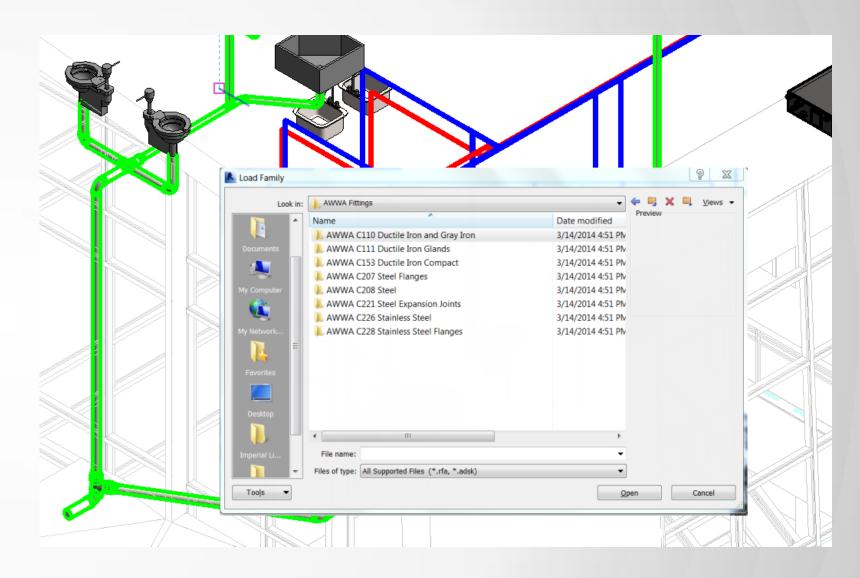


Create all wire shapes available in the UI, via the API



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





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