



Connected BIM workflows for MEP Design, Estimate, Detail, Fabricate & Install

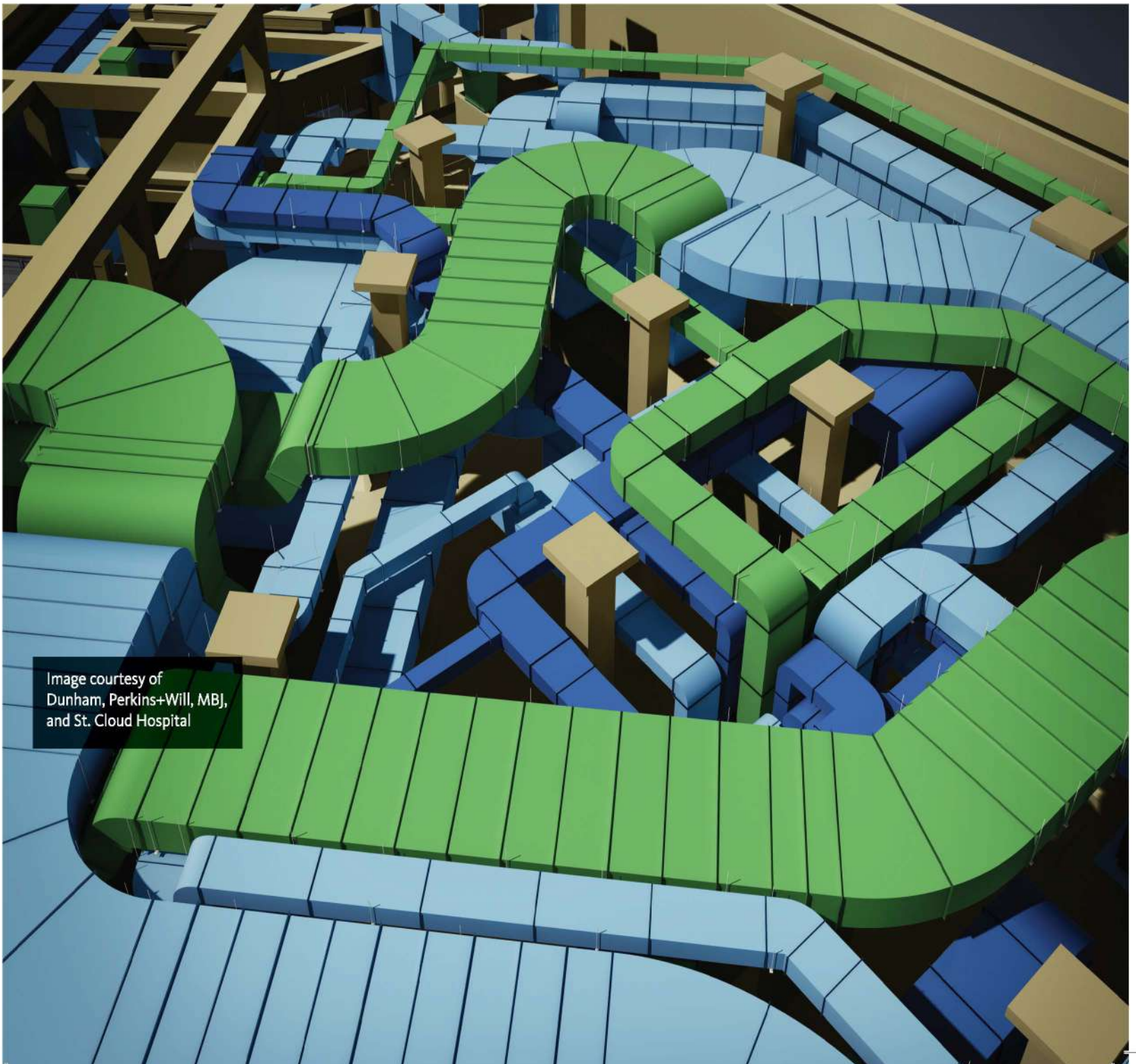


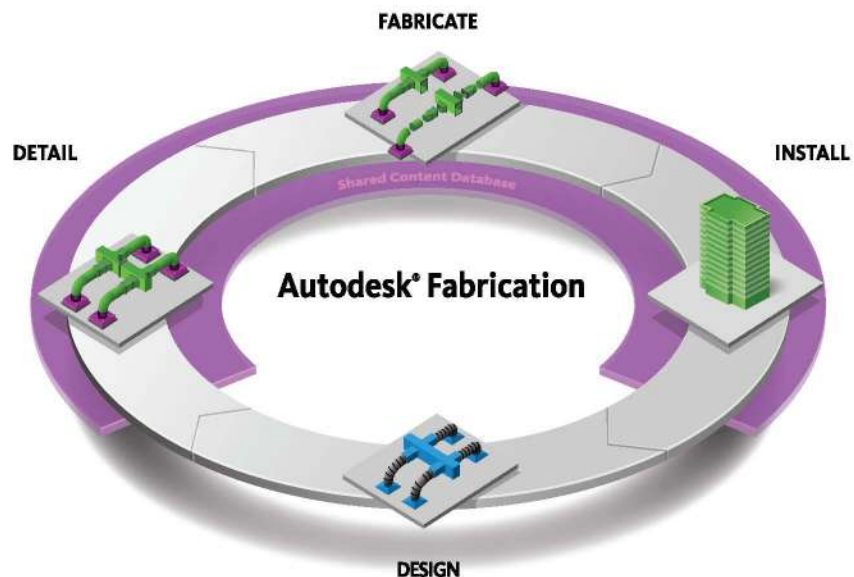
Image courtesy of
Dunham, Perkins+Will, MBJ,
and St. Cloud Hospital

More Accurately Design, Detail, and Fabricate Building Systems

Autodesk Fabrication is a comprehensive set of tools that helps MEP contractors take BIM and CAD workflows beyond design into detailing and fabrication.

We recognize the value of BIM downstream and into fabrication and for that we are using Revit MEP to take our design model and the intelligent information within, and output to CADmep which we see as the standard in the UK for ductwork and pipework. By doing this we can improve our own internal work-flows and also be more prepared to meet the exact needs of our clients and extended design team

—Gary Ross
Associate Director
BIM Innovation
Capita Symonds



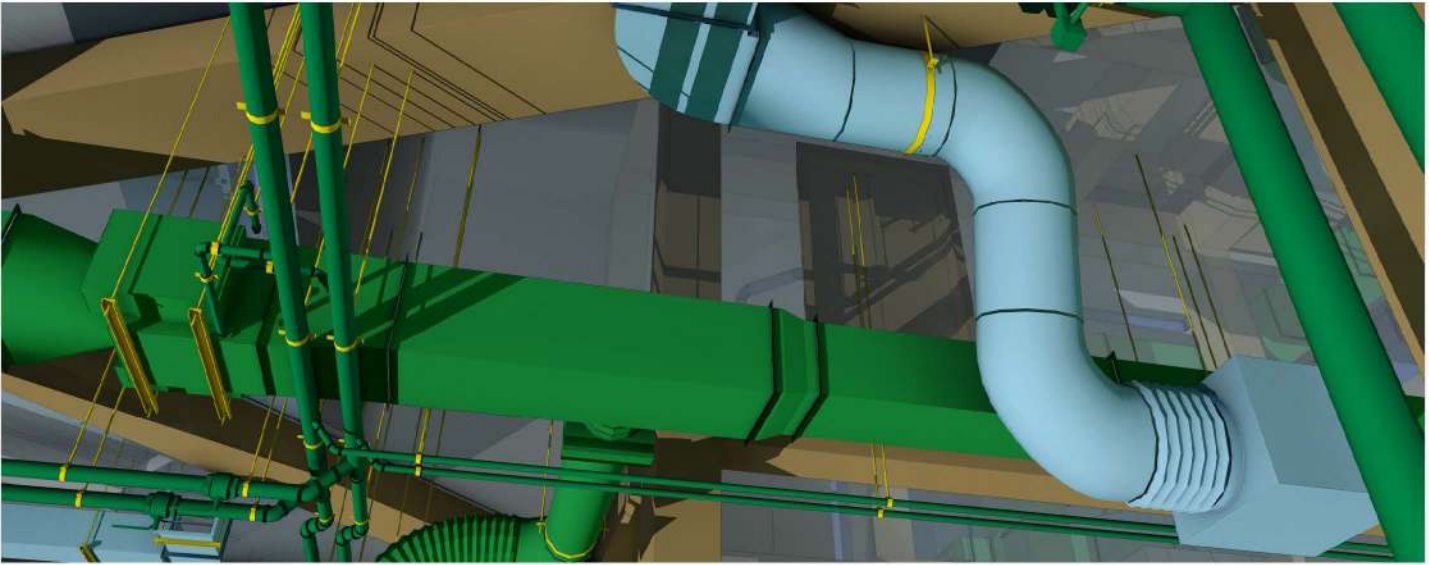
Autodesk® Fabrication software helps you extend the power of BIM to the detailing, fabrication, and installation of building systems. Whether the project calls for Building Information Modeling (BIM) or CAD workflows, Autodesk Fabrication provides the interoperable tools you need to support your project lifecycle.

Autodesk Fabrication is a comprehensive set of software applications for your business needs, helping you bring the design of building systems to fruition while supporting collaboration among project stakeholders.

Autodesk Fabrication shares a database of real-world content, enabling valuable data to be transferred smoothly between mechanical, electrical, and plumbing disciplines on building systems projects. Use design models created with Autodesk® Revit® with Autodesk Fabrication software to more accurately communicate design intent for fabrication and installation.

MEP contractors and engineers use Autodesk® Fabrication ESTmep™ software to produce more accurate cost estimates and conduct value engineering, and Autodesk® Fabrication CADmep™ software to create detailed models. Once detailing is complete, the resulting models are used in Autodesk® Fabrication CAMduct™ software for ductwork manufacturing.

Autodesk Fabrication features multiple software packages to improve your design-to-detailing and fabrication workflows and enhance productivity, including: Autodesk® Fabrication CAMduct™ Components software, Autodesk® Fabrication Tracker software, Autodesk® Fabrication RemoteEntry software, and Autodesk® Fabrication Review software.



F AUTODESK® FABRICATION ESTMEP™

Autodesk Fabrication ESTmep can help you win more work and better manage your cost analysis of building projects.

Help Increase Estimating Accuracy: Produce more accurate and detailed estimates—based on material, wastage, labor, fabrication, installation, and other costs—more quickly, utilizing a variety of innovative takeoff methods, including the software’s Trace capability using Design Line functionality.

Incorporate Project and Market Variations: More accurately develop competitive bids based on specific project and market demands, with greater control of all cost breakdown options.

Control and Track Variations: Comprehensively record, price, and document all adds and omits throughout the project, and make comparisons against the original estimate.

Produce More Accurate and Attractive Bid Documents: Automatically produce customizable company-branded reports that better meet your needs, enabling you to effectively document and visually support your bid.

F AUTODESK® FABRICATION CAMDUCT™

Autodesk Fabrication CAMduct helps you control the production of all ductwork components in a project. Utilize automatic job entry through Fabrication CADmep, then maximize sheet usage with the automatic nesting capability of Fabrication CAMduct, and easily interface with a wide range of CNC machinery to more fully control your fabrication needs.

Gain additional productivity enhancements with Fabrication CAMduct Components, a stand-alone software that enables multiple users to perform job entry to drive quicker production.

F AUTODESK® FABRICATION CADMEP™

Autodesk Fabrication CADmep can help fulfill your detailing and fabrication requirements whether you have an Autodesk Revit or AutoCAD®-based workflow. Utilize Autodesk Revit design models with Fabrication CADmep and extend your BIM workflow from design to detailing and fabrication. For CAD-based workflows, use Fabrication CADmep to design and detail in a familiar AutoCAD environment.

Limit Modeling Redundancy: Help reduce model redrawing by creating fabrication models—containing real-world content and specification-driven components—from your Revit MEP design models.

Improve Multiservice Coordination: Perform multiservice clash detection to help improve coordination of detailed models and resolve any conflicts before fabrication and installation.

Support Prefabrication, Modularization, and Manufacturing: Utilize spooling tools to support prefabrication and modularization of building systems and send ductwork to Fabrication CAMduct for the direct manufacturing of your components, helping you increase productivity, minimize errors, and reduce costs.

Extend the Value of Model Data: Access, report, and export the data contained in your Fabrication CADmep model to enable analysis by other project stakeholders. Use this valuable data to help simplify your business processes by importing it into third-party applications for accounting, procurement, or data analysis. In addition, you can utilize the fabrication model in Fabrication CAMduct software to control the manufacturing process by tracking each manufacturing and installation stage with Fabrication Tracker.

Produce Fabrication-Level Visualizations: Improve client understanding and satisfaction by producing more real-world visualizations of fabrication models. You can use Autodesk® 3ds Max® Design software to create high-impact visuals from your Fabrication CADmep models.

Streamline Installation: Utilize spatial data to improve your installation processes. Export the datum points of hangers, wall penetrations, bolt locations, inertia pads, and more. Use that data to control third-party laser positioning layout solutions, helping to increase productivity and minimize rework.

Autodesk Fabrication Tracker supports project management with the ability to track the status of individual projects and their associated items from fabrication to installation. Better control the manufacturing, delivery, and installation of building systems by visualizing status updates in the context of the fabrication model.

Autodesk Fabrication RemoteEntry supports unanticipated job site changes by enabling you to remotely order components based on project specifications at the fabrication site using Fabrication CAMduct.

Autodesk Fabrication Review is a free* viewer that supports stakeholder buy-in by enabling any member of your extended team to visualize and walk through fabrication building service models created with Autodesk Fabrication software.

**AUTODESK® ARCHITECTURE,
ENGINEERING & CONSTRUCTION
COLLECTION**



Extend BIM further with these top tools and more

AUTODESK® REVIT®

Concept

- A AutoCAD**
Speed documentation, share ideas, and explore 3D concepts with powerful design and documentation tools.
- I Insight**
Optimize building performance with centralized access to performance data and advanced analysis engines.
- D Dynamo Studio**
Design logic that drives the behavior of design model, and capture existing conditions and convert to data.
- R ReCap Pro**
Design in-context with reality-capture and 3D scanning software and services.

Design

- I Insight**
Optimize building performance with centralized access to performance data and advanced analysis engines.
- R Revit Live**
Turn models into immersive visualizations.
- Rendering**
Move compute-intensive rendering to the cloud to create more photorealistic images and panoramas.

Detailing

- F Fabrication CADmep**
Produce detailed fabrication shop spool drawings and documents.
- R Revit Live**
Turn models into immersive visualizations.
- Rendering**
Move compute-intensive rendering to the cloud to create more photorealistic images and panoramas.

Documentation

- N Navisworks Manage**
Integrate data from multiple sources to facilitate whole project review, coordination, and quantification.
- R Revit Live**
Turn models into immersive visualizations.
- Rendering**
Move compute-intensive rendering to the cloud to create more photorealistic images and panoramas.

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