



Features

1. Duct, Pipe, Conduit, and Cable Tray

Increase your productivity by letting Autodesk® Building Systems help you route duct, pipe, conduit, and cable tray using your preferred fittings in seconds. The software automatically generates 3D views, suggests layouts, inserts fittings, maintains angles via a compass, and provides snaps unique to Autodesk Building Systems.

2. Catalog-Driven Design

Autodesk Building Systems uses standard parts from extensive catalogs that are completely customizable and can include manufacturer parts available on the Web. Completed layouts automatically convert into schedules of parts that match manufacturer offerings. Catalog-driven design ensures accuracy by using the appropriate part with the correct dimensions every time. The extensive content libraries and catalogs matched to standards make it easy to find the right part with the right data at the right time. And the link between layouts and schedules saves time and ensures accuracy.

3. Electrical Circuiting and Engineering Tools

Electrical circuiting and engineering tools, such as panels, devices, wires, and circuits work together as an electrical system that is analyzed live while you draw. Plus you can export data to schedules in AutoCAD® or Microsoft® Excel software. Concurrent design and drawing with real-time calculations ensures proper ratings of all components, helping to avoid mistakes, overloads, and rework. Plus it increases productivity and enables you to quickly total loads and generate reports for easy documentation.

4. Plumbing, Fixture Units, and Code Calculators

With 2D plumbing layouts and fixtures that are automatically rendered in 3D, you can quickly and easily create drawings as well as visually pleasing presentations. Plus you increase productivity while adhering to plumbing codes by using code-based pipe sizing calculators. Pipe sizing data tables can be customized to meet local codes.

5. Isometric and Plan Schematics

Fast, integrated schematic drawing tools—including extensive content, isometric layout, and orthogonal layout—make it easy to create riser, one line, logic, and process and instrumentation diagrams.

6. Parametric and Block Content Tools

Quickly make your own parts from existing block content or use parametric solid modeling tools to create thousands of part sizes from scratch using one model—saving weeks of design time.

7. Intelligent Objects in Relationships

Intelligent engineering objects know what they are, how to behave, and how to join together as systems. You can take advantage of intelligent objects to lay out systems accurately the first time that automatically respond and resize upon modification. Feedback such as interference detection increases building model accuracy and minimizes costly errors. Intelligent objects and their properties are reflected in scheduling and tagging, property set definitions, and so forth.

8. Construction Documents

To easily make 2D construction drawings, simply change the display of your designs with the click of a button, without layer manipulation. Display representations such as haloed lines, layer keys, and drawing sheets make it easy to create many construction drawings from just one model. For example, you can easily change a design's view from a demolition floor plan to a final ductwork design plan without having to create separate drawings for each view. Because each view is based on your design, you can be assured that any change you make is properly reflected throughout all views of your design data.

9. Built on the Same Technology as Autodesk Architectural Desktop

Autodesk Building Systems 2004 provides all the updates and improvements seen in Autodesk® Architectural Desktop 2004, including interface enhancements and highly visual and customizable tool palettes. Because everyone is using the same technology, architectural and engineering designs are fully coordinated.

10. Drawing Management

With drawing management tools you can create projects, manage levels, and automate sheet creation from a centralized project environment to ensure consistency throughout all aspects of your projects. You can be assured that everyone on your design team is accessing the most current documents—from project templates to sections and elevations—from a centralized location.

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