

Features & Benefits

Today, the building process from design through construction, and later on into facility management, is more complex than ever. And the design review process is filled with team members who don't typically use computer-aided design (CAD) software, such as clients, contractors, and consultants, yet who are vital to the project workflow. Autodesk® Design Review (formerly Autodesk® DWF™ Composer) helps architectural and engineering firms overcome these challenges by accelerating the design review process and putting the design in the hands of the people who need it.

Easy-to-use tools help team members review, mark up, and track changes to sheet sets and building models, while dramatically reducing review cycles and costs and improving team communication. Tight integration with AutoCAD®, Autodesk® Architectural Desktop, Autodesk® Building Systems, and Autodesk® Revit®-based products provides a systematic method to respond to comments and help ensure that revisions are timely and comprehensive.

Here are some of the ways that Autodesk Design Review takes advantage of existing investments in established workflows to help building firms gain that elusive competitive advantage:

Accelerate Review Cycles

Cut two to three days per review cycle by using Autodesk Design Review software with Revit-based products, Architectural Desktop, Building Systems, or AutoCAD to electronically review, mark up, and revise designs.

Use Digital Back Checks

Reduce errors that cost time and money and affect a firm's reputation by using Design Review for back checking. Enable team members to automatically track and review changes and their status without waiting for printouts.

Visualize Designs for Client Presentations

Autodesk Design Review enables team members unfamiliar with complex CAD software to fully visualize drawings and models, including tools to rotate and cross-section models without altering the original file. Include interactive drawings and models in Microsoft® PowerPoint® slide sets for more effective presentations.

Autodesk Design Review 2007: Features and Benefits

Document Construction Change Orders

Use the markup and status tracking tools in Autodesk Design Review to track changes required throughout the construction process.

Reduce Printing and Shipping Costs

Save as much as \$100 per job while enabling team members to fully participate in a digital design review process. Going digital means no more waiting for drawings to be printed and distributed and then faxed back to the designer.

Key Features and Benefits

View

View and analyze 2D drawings and models exactly as the designer intended.

- **NEW Import DWG and DXF Files**
Import AutoCAD DWG and DXF™ files, including the latest 2007 format, directly into Design Review with full fidelity and accuracy.
- **ENHANCED Multisheet Viewing**
View complex sheet sets, including 3D models as a single, compact DWF™ file.
- **NEW Navigation Tool**
Navigate 3D building models with ease and precision with the new Turntable tool.
- **ENHANCED Navigation of Building Models**
Rotate, isolate, cross-section, and move 3D model components published from Revit-based products, Architectural Desktop, Building Systems, and AutoCAD.
- **NEW Create and Save Design Views**
Collaborate more effectively by enabling designers and reviewers to share specific views of a drawing or model.
- **ENHANCED Open and View Raster Files**
Open, rotate, and view raster images, including BMP, CAL, CALS, CG4, FLC, FLI, FLIC, GIF, GP4, IG4, JFIF, JPE, JPEG, JPG, MIL, PCT, PCX, PICT, PNG, RLC, RST, TGA, TIF, TIFF (including multisheet TIFF) for viewing and markup.
- **Navigate Using Hyperlinks, Bookmarks, Views**
Quickly navigate between sheets and views using embedded hyperlinks and bookmarks automatically published from Autodesk Revit, AutoCAD, or Architectural Desktop.
- **Access Design Intelligence**
Access data integral to engineering and architectural design review, including drawing scale, sheet set details, and object and markup properties.
- **NEW Search in Microsoft Explorer**
Find relevant data by searching in Microsoft Explorer using any text in the target DWF file.
- **Embed in Microsoft Office Applications**
Drag your designs into Microsoft Word, PowerPoint, or Excel, and enable team members to visualize the design in presentations, construction documentation, change orders, estimates, and more.

Print

Rich printing options enable you to print with the same print fidelity as the CAD application.

- **NEW Batch Printing**
Print multiple DWF files, customize print settings, and save batch printing configuration for later use with the Batch Print wizard. Automate batch printing with custom scripts, and save time by easily printing large numbers of DWF files overnight or as part of an automated process.
- **Preview, Select Preferences, and Print**
Preview files before printing, and print files to scale or at another scale with the same high fidelity as in Autodesk design software. Print options include fit to page, print current view, tile across multiple sheets, and print multiple pages or page ranges. Easily select paper sizes and preview the sheet or view to be printed before sending a DWF file to the printer.
- **NEW View and Print in Black and White or Grayscale**
View or print color drawings and models as black and white or grayscale, providing more flexibility in printing and easier viewing of markups on drawings.
- **Printer Integration**
Autodesk partnerships with HP[®], Océ[®], KIP[®], and PLP[®], among others, make printing to your hardware device easier than ever. If you're connected to a supported HP Designjet[®] printer, select the HP Instant Printing feature to print an entire sheet set automatically rotated or scaled to best fit the printer roll size.

Mark up and Annotate

Everything you need for clear and concise markup and annotation, including redline, freehand, stamping, and custom symbols tools.

- **ENHANCED 3D Review, Markup, and Measure**
The viewing, markup, and measure features of Autodesk Design Review extend beyond 2D to include 3D DWF files.

The following building design applications publish 3D DWF format files. AutoCAD, Architectural Desktop, and Building Systems also publish the combination of 2D drawings and 3D models in the same DWF package.

- AutoCAD[®]
- Autodesk[®] Architectural Desktop
- Autodesk[®] AutoCAD[®] Revit[®] Series—Building
- Autodesk[®] AutoCAD[®] Revit[®] Series—Structure
- Autodesk[®] AutoCAD[®] Revit[®] Series—Systems Plus
- Autodesk[®] Building Systems
- Autodesk[®] Revit[®] Building
- Autodesk[®] Revit[®] Structure
- Autodesk[®] VIZ
- Autodesk[®] 3ds Max[®]

Information on how to publish 3D models is available with respective product documentation at www.autodesk.com/dwf-publishing.

Autodesk Design Review 2007: Features and Benefits

- **ENHANCED Smart Shapes and Freehand Markup Tools**
Add comments to sheet sets and 3D views electronically, including familiar markup call-outs, standard shapes, freehand drawings, and text.
- **ENHANCED Custom Stamps and Symbols**
Custom symbols provide a powerful way to annotate and mark up information in the office or in the field. Create your own catalog of symbols from any source, including block libraries published to DWF format from AutoCAD, as well as any DWF file published from Autodesk design applications or Autodesk® DWF™ Writer. Reviewers and inspectors can now communicate precisely by resizing and rotating custom symbols, text, stamps, rectangles, and ellipses, providing greater flexibility and reuse when making annotations.
- **Change Color, Line Width, and Font**
Change the markup display according to different users or preferences. Select from the 48 predefined colors or one of your own, transparency options, and font sizes or style.

Measure

Built-in measurement and dimension tools help ensure accurate communication during design review.

- **Lines, Polylines, and Area Measurement**
Precisely measure lines, polylines, and areas in drawings, or distance and angles in 3D models with built-in measurement tools.
- **Snap-to-Fit Geometry**
Snap precisely to the drawing geometry, helping to ensure easy and accurate point-to-point measurement with the dimension tool.

Track Changes

Avoiding overlooked changes is easy with powerful status tracking that helps manage design or construction change orders.

- **ENHANCED Automatically Track All Markups**
Automatically track the project's status with auto-recording of markups, text annotations, dimensions, review status, and notes.
- **Navigate Markups**
Navigate markups using the Markup browser to help ensure that all comments are addressed. Jump straight to markup views from the Navigator window. Or track by status.
- **Change Markup Status**
Change the status of your reviews from a Question, to For Review, to Done. Design Review automatically changes the markup color to reflect markup status so you can quickly see design changes requiring attention.
- **Check History, Timestamps, and Notes**
See input provided by the reviewer. All comments are directly associated with the design for more precise communication between team members. Add detailed notes, and track the history of comments throughout the review cycle in the Markup Properties window.

Combine Project Documents

Drag project information into your DWF file to quickly and easily build a complete project file with product specifications, timelines, and more.

- **NEW Combine 2D and 3D Designs**
Share, review, and mark up both 2D drawings and 3D models in a single file. Design Review supports adding, deleting, reordering, and renaming sheets and models within the Navigator window.
- **Capture Graphical Information**
Capture graphical information such as a product specification or color sample from the web or other applications with the Snapshot tool, and add it to your review set in Design Review.
- **Drag Project Data (from Microsoft Office and Others)**
Drag project-related documents, such as schedules or estimates published to DWF format, directly from Microsoft Office or other applications. Publishing to DWF is simple with the free Autodesk DWF Writer, included with Design Review software.

Round-Trip Reviews

Increase team productivity with inline markup tools that allow you to round-trip designs quickly and easily back into Autodesk design software—without the need to reenter information.

- **ENHANCED Complete the Review Cycle**
Save DWF files with markups, redlines, and annotations and send them to the CAD user or other project team members. DWF format preserves all markup information, which can be viewed in Autodesk design software or the free Autodesk® DWF™ Viewer.
- **Save and Round-Trip All Markups**
Import markups from DWF format back into Autodesk design software. Systematically walk through a review set, navigating markups in the Markup Set Manager for fast, easy revisions in AutoCAD, Architectural Desktop, Building Systems, and Revit-based products.
- **Manage Markups in Autodesk Buzzsaw**
Autodesk Design Review is fully integrated with the Autodesk® Buzzsaw® on-demand collaborative project management solution, enabling instant communication of changes to the project team and tracking of markup versions.

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