

AutoCAD®
Structural Detailing
2010

Top 10 Reasons

AutoCAD Structural Detailing software enhances productivity with precise detailing and creation of fabrication shop drawings of steel and concrete structures.

1. Intelligent Structural Objects

In AutoCAD Structural Detailing, engineers and drafters can create structural steel models or rebar drawings using intelligent objects (such as beams, plates, columns, walls or reinforcement bars) rather than lines and curves. You can virtually cut, lengthen, bend, split, and merge objects. These objects dynamically react to changes and automatically update material takeoffs.

2. Powerful Macros

AutoCAD Structural Detailing provides special tools and smart macros that enable fast automation of time-consuming structural tasks. Use macros to generate typical parts of steel structures (including connections, roof trusses, stairs, railings, and ladders), automatically place elements (such as grates or purlins) or generate complete concrete reinforcement drawings of typical part of structures, together with rebar descriptions and material takeoffs.

3. Country Specific Detailing Templates

Creating shop drawing documentation depends on regional codes and detailing methods characteristic for each country (especially for reinforced concrete drawings). AutoCAD Structural Detailing software offers templates are based on regional detailing practices such as designations and hatching patterns, in a multitude of countries, helping to ensure adherence to local detailing methods and appropriate elements or material schedules.

4. Regional Databases of Steel Profiles, Materials, and Reinforcement Bar Shapes

AutoCAD Structural Detailing includes multiple databases from a wide range of countries to help ensure that users have the proper locally required elements such as steel sections, materials or rebar shapes.

5. Automatic Views, Cross-Sections, and Details

AutoCAD Structural Detailing helps to prepare shop drawings by automatically generating elements or building cross-sections and elevations complete with dimensions and descriptions.

6. Automatic Generation of Complete Shop Drawings

AutoCAD Structural Detailing generates complete workshop drawings (with single parts and assemblies), schedules, and material takeoffs. When design changes are made, the software helps you streamline time-consuming updates of descriptions and dimensions, offering more data coordination throughout your shop-drawings set.

7. Schedules and Material Takeoffs

AutoCAD Structural Detailing can produce all schedules and material takeoffs automatically from the drawings, or allows the user to export them to Microsoft® Excel® or Microsoft Word® software. Schedules are updated automatically to reflect changes made in your drawings.

8. Customizable Detailing and Shop Drawings Styles

Styles allow users to more freely adjust the look of final shop drawings. You can change almost any aspect of the drawing, including descriptions, symbols, dimensions and tables. Create new styles or modify existing ones easily to make your drawings look exactly the way you want.

9. Interoperability with Structural Analysis Software

AutoCAD Structural Detailing software seamlessly imports structural steel models created in Autodesk® Robot™ Structural Analysis software, as well as CIS/2 files, for more rapid 3D assembly and further detailing. The reinforcement detailing capability also imports reinforcement data from Autodesk Robot Structural Analysis software for automatic generation of reinforcement drawings for particular element. Several formats are available for data export. Structural steel drawings can be sent to computer numeric controlled (CNC) fabrication machines.

10. Import Autodesk® Revit® Structure Data

Using the Reinforcement Drawing Extension you can export reinforcement data from Autodesk Revit Structure software and generate 2D reinforcement drawings with AutoCAD Structural Detailing's reinforcement detailing capabilities. A reinforcement drawing can be generated according to a selected national code. You can import a structural steel model created in Autodesk Revit Structure and exported to CIS/2 and finish detailed modeling by adding necessary details such as connections, ribs, plates, stairs and railing in AutoCAD Structural Detailing.

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