



CADworks RMC² - Revit[®] Manufacturer Content/Configurator

CADworks began two decades ago with a commitment to both MEP engineering excellence and related technological innovation. Since then, CADworks has leveraged the success of its MEP engineering business to fuel technological progress in engineering by significantly reinvesting in research, development and evaluation. CADworks has maintained the resulting processes of purposeful integration and utilization of new technologies for its own engineering practices. This dynamic also has enabled CADworks to assure its associates and clients of its ability, and willingness, to marshal the appropriate resources and tools for the projects and tasks at hand.

CADworks introduced into production both Autodesk Building Systems and later Autodesk Revit MEP at their first releases, without hesitation and with the confidence that the gains of knowledge and experience through effort and practice would more than offset any potential loss of productivity. Rightly so and consequential to that process CADworks has established obvious competitive advantages for its engineering business. Now, after centering practice and development efforts on Revit MEP, CADworks has produced manufacturer-specific Comprehensive Revit MEP Content focused on providing much needed tools, information, functionality, and interoperability for the AEC/MEP industry. CADworks has in place a dedicated team of modelers and engineers for the creation and maintenance of Revit MEP content, and has partnered with multiple Building Product Manufacturers, applying best practice methodologies, to develop Revit MEP product content. Partnering closely with manufacturers allows product specific configurations to be applied to the content which assists and guides product selection in Revit.

Through its engineering/technology focus CADworks has determined that a broader relationship with Microsoft and Autodesk to be critical, and to that end, has been a member of the Microsoft Developer Network and Autodesk Developer Network for some time. To complete the commitment to technological development, CADworks has brought on accomplished expertise with decades of combined experience working with CAD/BIM programming, software automation, and knowledge management for the support of collaboration, quality assurance, accountability and data management control. CADworks utilizes the latest Microsoft development platforms including Microsoft Office SharePoint Server 2007, .NET Framework, SQL Server, and ASP.NET. With this ability and these tools CADworks is able to deliver an open and scalable platform, which brings tremendous value for collaboration and data delivery/management. CADworks can address concerns of content management, management systems, and maintenance/distribution to multiple Web destinations.

With the growing adoption of Building Information Modeling by the AEC industries and the arrival of larger, more encompassing efforts to address the needs for a better built environment, CADworks can assist the Building Product Manufacturer community go beyond the singular task of offering quality right-sized, product-specific Revit MEP content. CADworks can provide currently the systems, data and Web tools/services the Building Product Manufacturer community needs in order to participate fully in fast approaching integrated, interoperable, and collaborative environments.

Several distinguishing features of CADworks Comprehensive Revit MEP Content:

- **Element Visibility** – The visibility of the Revit Family is as important as having the appropriate and correct associated information. The precise combination of necessary applied materials, finishes, annotations and symbols at different situations ultimately affects Revit performance.
- **Content Reference** – CADworks Comprehensive Revit MEP Content consists of universally applicable faced-based families. For example, an engineer linking to a Revit Architecture model cannot use object-based families.
- **Dimensions** – Overall Dimensions have been added to provide information to allocate work space requirements.
- **Connectors** – Use-specific connectors provide an associative link which enables information to logically pass through engineering systems. All CADworks Comprehensive Revit MEP Content have connectors which have been tested by a Professional Engineer and utilized in a test project, as well as in Autodesk NavisWorks®.
- **Electrical Information** – All CADworks Comprehensive Revit MEP Content families which use electrical power have had the associated electrical information tested and verified through calculation. Essential electrical information would include Voltage, Wattage or Volt-Amperes, Amperes (FLA or MCA), Number of Poles, Phase and Horsepower when applicable, all of which may be scheduled.
- **Mechanical Information** – All CADworks Comprehensive Revit MEP Content that is of a Mechanical nature will contain not only the above mentioned electrical data, but also Minimum and Maximum Airflow, Static Pressure, and if applicable, any Hydronic Flow or Horsepower data.
- **Revit Content Import** – All CADworks Comprehensive Revit MEP Content will be accessible through a fully integrated search module and inserted into a model without having to leave the Revit session.
- **Partners** – For a more complete solution and with the future in sight, CADworks is associated with InterSpec® (eSPECS), Innovaya® (Cost Estimating) and IES® (Energy Analysis), to ensure content can interact with all Building Information Modeling has to offer, increasing the overall value proposition.
- **Content Data Query** – Powerful content navigation and searching for content selection to determine best products based on engineering requirements.