



## Engineering Analysis with Partner Applications

Autodesk has been working closely with industry-leading analysis applications to improve productivity and accuracy of analysis. The following are common questions about interoperability with partner applications and the capabilities of engineering analysis in Autodesk® Building Systems 2005.

### **Does Autodesk Building Systems 2005 include calculation and analysis tools for engineering design?**

Yes. The objects and framework in Autodesk Building Systems support engineering calculation and analysis through the use of connection graphs and property sets.

- **Mechanical:** Size duct automatically while laying out ductwork based on traditional duct design methods, such as equal friction and static regain.
- **Electrical:** Use circuit tools to automatically total circuit and power loads; generate circuit reports that can be exported directly to a bidirectional Microsoft® Excel spreadsheet where you can quickly size wires, panels, and main service lines; and use the Circuit Manager to automatically flag overloads based on calculated loads and circuit lengths.
- **Plumbing:** Size supply piping (hot and cold domestic water) and sanitary waste with automated tools based on customizable plumbing code and fixture unit pipe-sizing tables.

### **Is Autodesk Building Systems 2005 compatible with third-party engineering analysis applications?**

Yes. Through exporting to standard file formats, such as gbXML and application programming interfaces (API), crucial engineering design data can be extracted from Autodesk Building Systems 2005 models for interoperability with third-party analysis applications from industry leaders. For more information about the availability of third-party applications compatible with Autodesk Building Systems 2005, visit [www.autodesk.com/buildingsystems-partners](http://www.autodesk.com/buildingsystems-partners).

### **Which partners are working with Autodesk to provide this functionality?**

Autodesk is working with industry leaders such as Trane, GeoPraxis, Elite, and Lindab to provide this functionality. Some of these applications are scheduled for release later in the year. For more information about the availability of third-party applications compatible with Autodesk Building Systems 2005, visit [www.autodesk.com/buildingsystems-partners](http://www.autodesk.com/buildingsystems-partners).



Autodesk, Inc.  
111 McInnis Parkway  
San Rafael, CA 94903  
USA

Autodesk is a registered trademark of Autodesk, Inc., in the USA and other countries. All other brand names, product names, or trademarks belong to their respective holders. © 2004 Autodesk, Inc. All rights reserved.