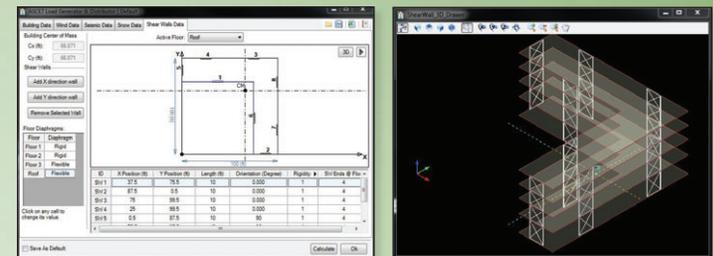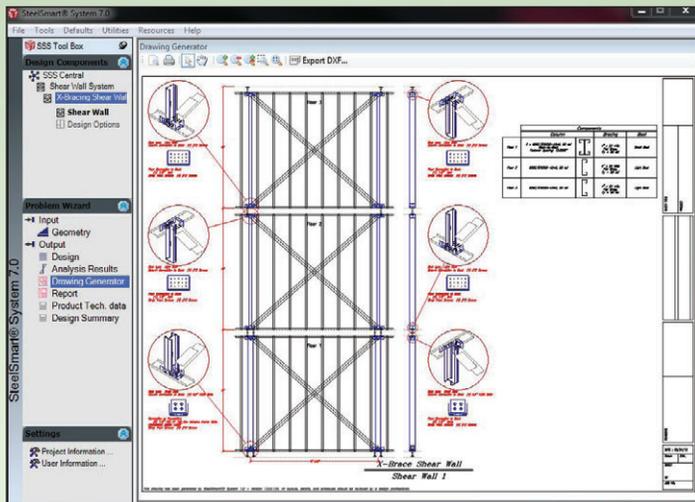# SteelSmart® System 7
With 2012 IBC & ASCE 7-10

SteelSmart® System (SSS) provides construction professionals with an essential tool engineered for both fast and accurate design. SSS 7 raises the bar for light steel framing analysis and design by seamlessly integrating the well-known analytic power of its predecessors with additional functionality and accessibility.

Available as a complete suite, SteelSmart System 7 will streamline production through the design and detailing of members, connections, and fasteners. Available design modules include: Curtain Wall, Load Bearing Wall, X-Brace Shear Wall, Floor Framing, Roof Framing, Roof Truss, and Moment-Resisting Short Wall. SSS 7 incorporates two Advanced Features, the Load Generator and Distributor and the Layout and Connection Details Generator, that further aid the user in the design process.

Layout and Connection Details Generator

A major feature of SSS is the Layout and Connection Details Generator. The framing layout of components is generated with connection details that include connection design data (clips designations, number of fasteners, embedment lengths, and screw patterns). The drawing generator is included within all 7 primary design modules, and will create a detail upon successful design of components. The drawings can be printed or exported in the AutoCAD® DXF format allowing the drawings to be easily transferred into other drafting software.

In additional to the Layout and Connection Details generator, there is also a library of component details within SSS. Details are split into 7 categories including: Curtain Wall, Load Bearing Walls, Shear Walls, Products Details, Floor Framing, Roof Framing, and LSF Systems.

Load Generator and Distributor

The Load Generator and Distributor tool uses the dimensions and load specification for a building to calculate the lateral wind and seismic forces according to ASCE 7 "Minimum Design Loads for Buildings and Other Structures." Now included in the Load Generator is the IBC 2012 and ASCE 7-10 design codes for development of lateral forces and snow loads. The output from the load generator gives the laterals forces distributed between floor levels and the shear walls at that floor level. The method of distribution considers either rigid or flexible floor diaphragms, while considering torsional effects when rigid diaphragms are selected. Output can be exported directly into the X-Brace Shear Wall design module or into an Excel spreadsheet.