

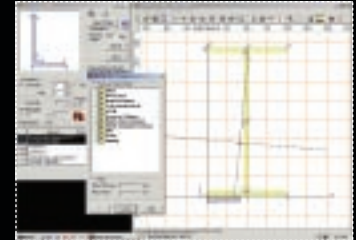
Sectionwizard

Section Property Calculator



Product Description

Sectionwizard is an invaluable tool for the structural engineer, allowing fast and accurate calculation of section properties of any free-form shape (including warping and torsion constants), retrieval of stress values for custom and assembled shapes, finding equivalent mill sections for general sections and exporting all properties to STAAD.Pro. Sectionwizard is compatible with leading PC-based engineering software applications and metric and imperial unit systems.



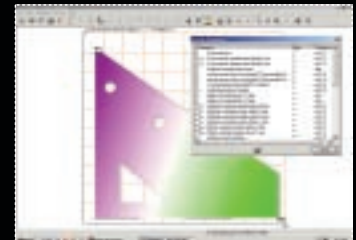
Use built-in steel tables to construct a section



Import DXF and DWG drawings



Draw any shape including curved surfaces, holes and fillets



Full stress contour and all sectional properties calculated



Research Engineers International

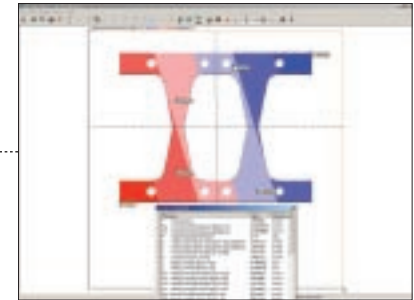
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Features ◀

Sectionwizard is the most comprehensive section property calculator in the market today. The program allows the engineer to build-up any section from a myriad of international steel tables or draw the outline of any section from scratch. The program contains the following features:

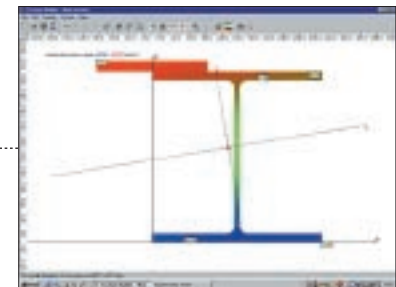
- Create custom shapes from built-in sections and plates or draw any section using the FreeSketch Pad. Add curved surfaces, holes of any shape, chamfers and fillets.
- Create a customized library of parametric sections for future use
- Calculate section properties of custom and built-up shapes including Area, Moment of Inertia, Section modulus, Center of Gravity, Shear Center, Plastic Modulus, Torsional Constant, and even Warping Constants
- Create composite sections by identifying the Modulus of Elasticity and Poisson's ratio
- Calculates and displays stresses at any point of a cross section based on Axial forces and Moments about principal axes. (Compare actual stress calculations with allowables to verify the adequacy of your section)
- Quickly find equivalent standard sections with properties comparable to your custom/built-up section (useful for design purposes when codes don't offer guidelines for custom shapes). For example, create a hexagonal tube and ask the program to find an equivalent channel so a proper design can be performed.
- Several international steel tables supported including British, French, Dutch, German, Russian, Canadian and Indian
- Metric and Imperial units supported
- **Full Integration with STAAD.Pro** - Export out section properties to a STAAD.Pro file as a prismatic shape or user-defined table
- Create MS Word reports embeddable in STAAD.Pro Word file outputs



Calculate sectional properties for any random shape



Find equivalent steel mill sections with similar properties



Calculate stress distribution for any applied loading

