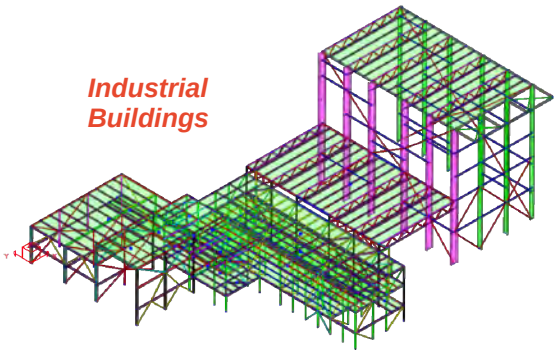
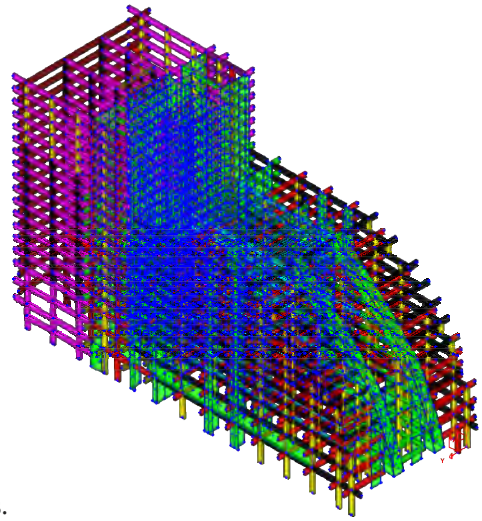
S-PAD™



S-PAD™ is a stand-alone steel member design and optimization application

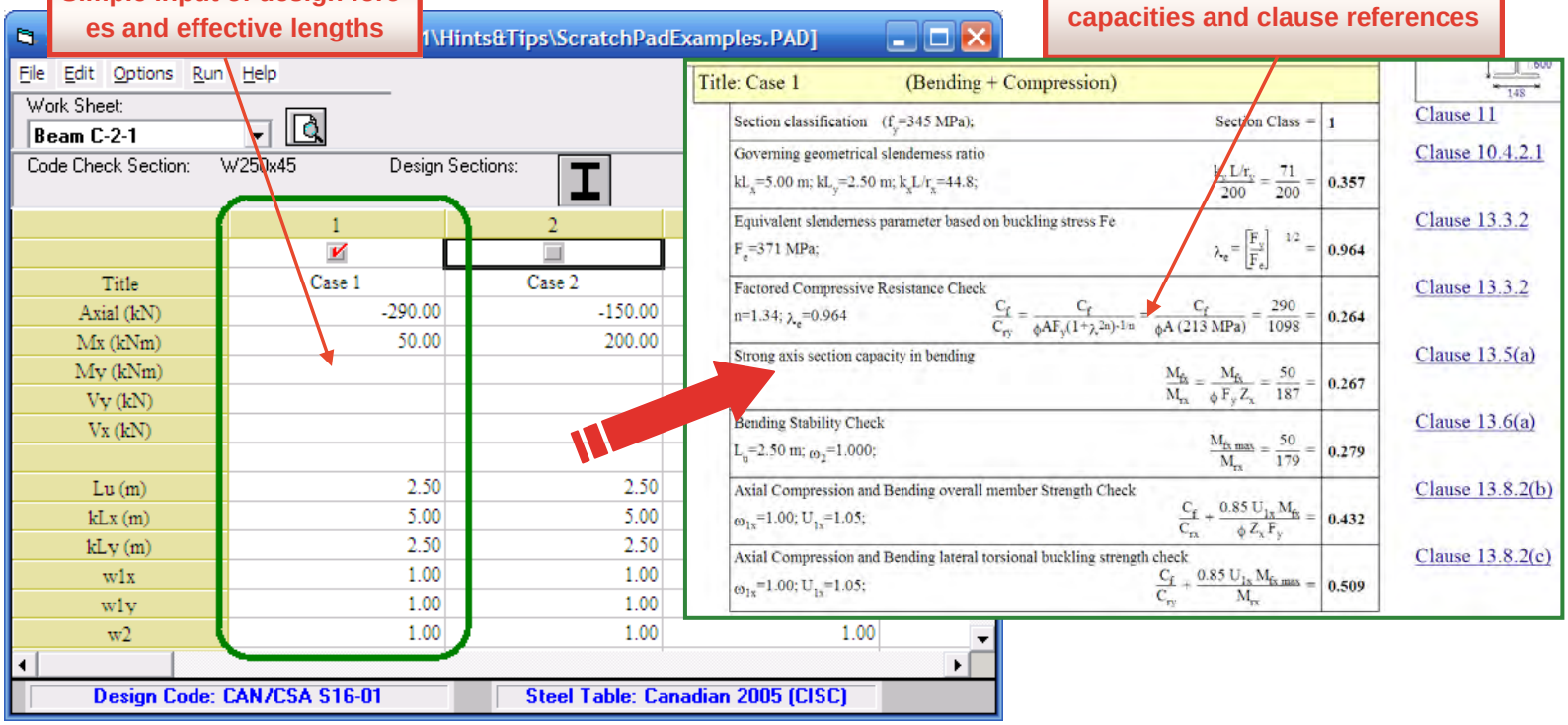
- Simply input strength and stability design forces, effective lengths in compression and unsupported lengths in bending of a steel element (beam, column or brace) and run a quick code check or even an auto-design to help identify an optimum section.
- Input can be pasted in from external spreadsheet programs.
- Support for AISC 360-10 & 360-05 LRFD/ASD, AISC ASD 89, AISC LRFD 94, CSA-S16-2001 & 2009, CSA-S16.1-M94, BS 5950:1990 & 2000, EC3:2005, AS 4100-1998, NZS 3404:1997.
- Support for American, Canadian, British, European and other international section sizes.
- Code relaxation available for more conservative designs.
- Quickly checks a member's capacity (beam, column, or brace) without the need to build a complete detailed model.
- Uses a simple, intuitive spreadsheet layout which allows up to 20 design cases to be evaluated simultaneously.
- Input files can be saved and can contain multiple worksheets each with up to 20 design cases.
- Detailed design calculations can be viewed for all section shapes.
- Features exactly the same superb output as S-STEEL as well as the same comprehensive set of design constraints giving the engineer full control of **ALL** design parameters.
- For auto-design an automatically sorted list of adequate sections is produced to easily identify optimum sections and detailed design calculations can be viewed for all sections.
- Code check or automatic redesign options for strength and span deflection for steel members.
- Supports code checks for both strength and serviceability. Serviceability checks include comprehensive deflection criteria and an option to consider camber.
- Flexible output/reports for designs and code checks.



Hotels

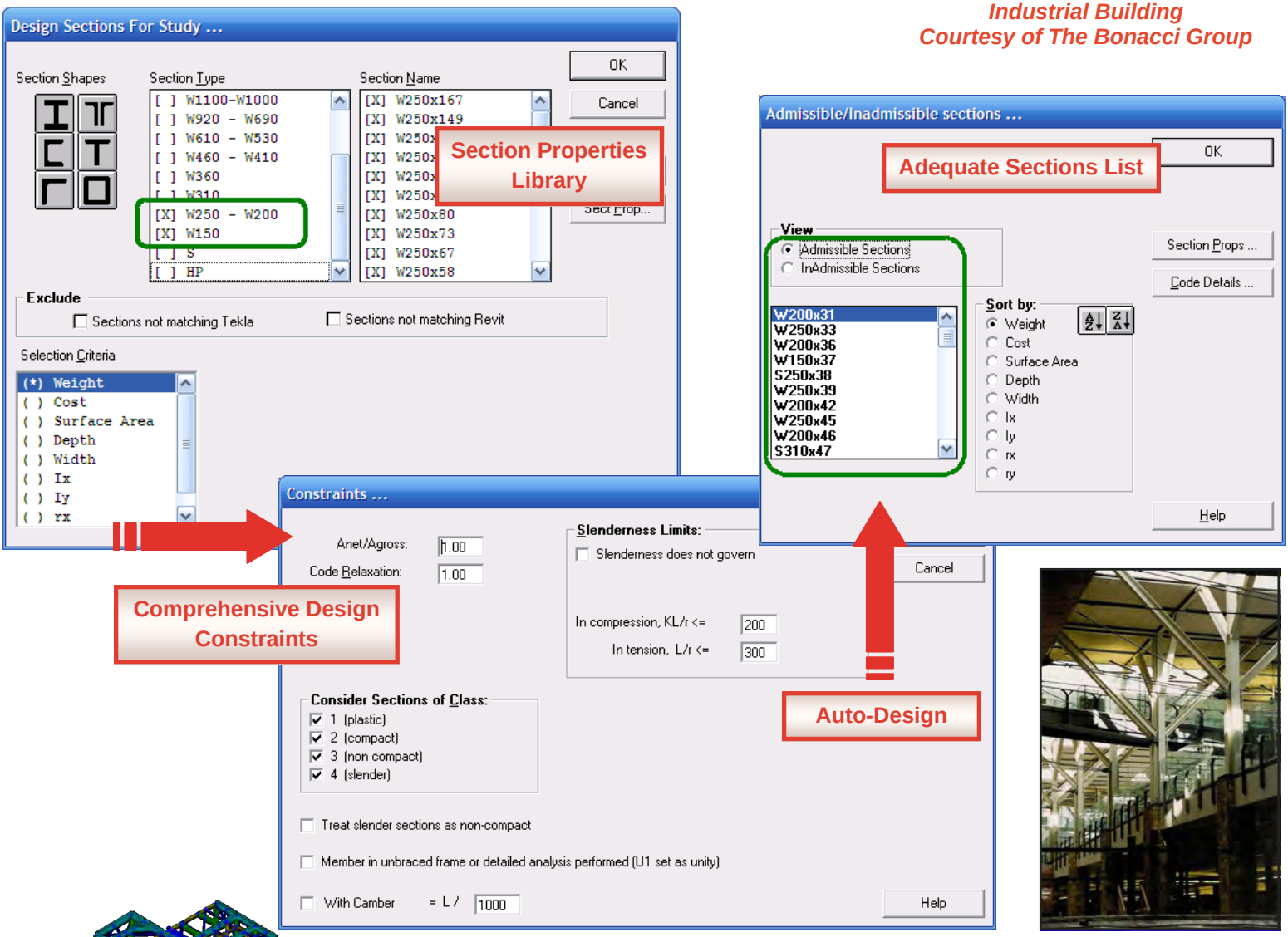
Simple input of design forces and effective lengths

Output showing detailed code equations, intermediate results, capacities and clause references

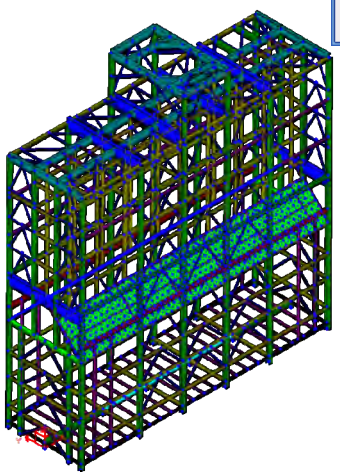


S-PAD™

Industrial Building
Courtesy of The Bonacci Group



Vancouver International Airport
Courtesy of Bush, Bohlman & Partners



Refinery Heater Structure
Courtesy of SDI Engineering

- Full clause references to codes of practice.
- Material listing for weight, surface area and costs.
- User defined constraints for accurate design criteria.
- Unparalleled quality of printed results – complete breakdown of code results for members that pass or fail.
- Flexible output reports and integration with TEDDS®
- Least weight, cost, depth and surface area design criteria.
- Member grouping for realistic design results – making certain members continuous as required.
- Electronic online help system.
- … and much more.

S-FRAME SOFTWARE