

S-CONCRETE Webinar

Designing Reinforced Concrete Beams for Shear and Torsion with S-CONCRETE

Dear Judith,

Join us for this live Webinar to learn more about how S-CONCRETE can be used in the design of reinforced concrete beams for shear and torsion:

Date: February 17 th , 2012	Presenters: Kenny Kutyn and Saad Antoon
Time: 11am PST (2pm EST)	Duration: 45 Minutes

Join us to:

- See why S-CONCRETE is considered the most comprehensive and user-friendly software application for the analysis, design and detailing of reinforced concrete beam, column and wall sections.
- See how it could improve the quality, repeatability and efficiency of your reinforced concrete design processes.
- Learn more about the specifics of the CSA-A23.3-04 design code.

Who Should Attend:

Structural Engineers Civil Engineers Engineering Managers

About this Webinar:

This Webinar aims to provide an overview of shear and torsion design provisions for beams as stipulated by the Canadian Concrete design code CSA-A23.3-04 and

implemented in the S-CONCRETE design software.

We will begin with a brief look at the relevant clauses for shear design, torsion design, and combined shear and torsion design, followed by a discussion of the role longitudinal reinforcement plays in resisting these forces. Next we will present two methods, the simplified and the general method, used to determine the factors involved in the strength calculations. A live demonstration will follow using examples which highlight the S-CONCRETE implementation of the shear and torsion design process including section checking and redesign. Following the Webinar, we will have a 15 minute Q&A session.

About S-CONCRETE:

S-CONCRETE performs comprehensive design/code checks for numerous international codes (ACI, CSA, BS and more) of reinforced concrete beams, columns, and walls with support for axial, shear, and moment loads, including torsion on sections.

S-CONCRETE provides axial force-moment interaction (P-M) curves for a wide range of reinforced concrete cross-sections with true axial force and bi-axial bending calculations based on strain compatibility of the section. Applied forces are plotted on capacity curves to easily show conformance for the analyzed design. Its powerful graphical output capabilities provide immediate feedback to the engineer as design parameters are changed. Once the design is complete, the ability to export the cross section with reinforcing to an AutoCAD DXF file showing the actual reinforcement layout, including primary and secondary bars, ties and stirrups, allows for quick and easy incorporation into engineering drawings.