Software Guide

ADAPT Corporation
Phone: 650-306-2400
Email: info@adaptsoft.com
Web: www.adaptsoft.com
Product: ADAPT-ABI 4D Construction Phase Analysis
Description: An integrated 3D CAD system for design, analysis, and production of reinforced concrete structures, producing automated design and detail drawings and rebar schedules. Enables engineers to reduce documentation production time.

ADAPT Corporation
Phone: 919-645-4090
Email: tdigiaro@appliedscienceint.com
Web: www.appliedscienceint.com
Product: Extreme Loading for Structures
Description: An advanced non-linear structural analysis software tool designed specifically for structural engineers. Easily study static and dynamic loads such as those generated by blast, seismic events, impact, progressive collapse, and wind.

Bentley Systems
Phone: 610-458-5000
Email: katherine.flesh@bentley.com
Web: www.bentley.com
Product: SteelSmart System (SSS)
Description: Available as a complete suite, SSS 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.

Applied Science International, LLC
Phone: 425-392-4309
Email: info@appliedscienceint.com
Web: www.appliedscienceint.com
Product: Always Software
Description: An intuitive software complements Bentley’s LEAP Bridge Enterprise for concrete design with Bridge Information Modeling (BrIM) for steel bridge design.

Bentley Systems
Phone: 425-392-4309
Email: cadresales@cadreanalytic.com
Web: www.cadreanalytic.com
Product: CADRE Pro 6
Description: Finite element structural analysis application for Windows, Solves beam and/or plate type structures for loads, stress, displacement, and vibration modes. Advanced features for stability, buckling, dynamic analysis and shock. Complete seismic analyses to comply with current codes. Special provisions for unusual structural types such as geodesic domes.

Web: www.tekla.com/tekla-structures-20

In June 2014, Tekla released Tedds 2014, a new version of its calculation production suite which automates the design and documentation of structural components. “A major new development to Tedds 2014 is the inclusion of the Tedds Project Manager,” Broome notes. “Project Manager allows users to create a project of related Tedds documents that can easily be managed directly within Tedds. Teams using Tedds are able to work even more efficiently by using Project Manager to streamline their workflows and administration, and create dynamic reports directly from the Project Manager.”

Fasttrak, another offering, is a steel building design tool. It is a physical object-based modeling solution which automates the requirements of AISC360 and ASCE7, according to Broome. He says that the main reasons why clients use Fasttrak are:

- The ability to model and automate the design of composite floors and complex roof structures/trusses in one model and in one interface
- The ability to model and automatically design gravity and lateral systems in one model and in one interface
- The ability to synchronize a design model with a Revit model and pass information in both directions, as many times as required, in a manageable way.

Broome concludes: “Our solutions contribute to the essential processes of today’s information-intensive construction industry. Ultimately, it comes down to collaboration and sharing of information. We continually add new features to help our clients work efficiently. BIM is increasingly becoming common practice and it’s vital that we offer our clients a cutting-edge BIM solution so that they can increase their productivity, win more work and be more profitable.” (See ad on page 56)
Computers & Structures, Inc.
Phone: 510-649-2200
Email: info@csiamerica.com
Web: www.csiamerica.com
Product: SAP2000, CSIBridge, ETABS and SAFE
Description: Computers & Structures, Inc. develops leading structural and earthquake engineering software used in more than 160 countries worldwide. From simple building structures to complex long-span bridges, CSI products do it all with a balance of practicality and sophistication.

Concrete Masonry Association (CMACN)
Phone: 916-722-1700
Email: info@cmacn.org
Web: www.cmacn.org
Product: CMD12

Decon USA
Phone: 707-996-5954
Email: frank@deconusa.com
Web: www.deconusa.com
Product: Jordahl Anchor Channels
Description: Software allows a user friendly and safe calculation for anchoring in concrete with JTA anchor channels. Features a technical and economical optimization of the design for each individual connection. 3D graphics are easy to use and allow a fast and clear input of all data.

Design Data
Phone: 402-411-4000
Email: marnett@sd2.com
Web: www.sds2connect.com
Product: SDS/2 Connect
Description: Enables users of Revit Structure for BIM to intelligently design steel connections and produce detailed documentation on those connections. SDS/2 Connect is the only product that enables structural engineers to design and communicate connections based on their Revit Structure design model as part of the fabrication process.

Devco Software, Inc.
Phone: 541-426-5713
Email: rob@devcosoftware.com
Web: www.devcosoftware.com
Product: LGBEAMER v8.0
Description: Analyze and design cold-formed cee, channel and zee sections. Uniform, concentrated, partial span and axial loads. Single and multi-member designs. 2007 NASPEC, including the 2010 Supplement (2013 IBC) compliant. Pro-Tools include shearwalls, framed openings, X-braces, joists and rafters.

Enercalc, Inc.
Phone: 800-424-2252
Email: info@enercalc.com
Web: www.enercalc.com
Product: Structural Engineering Library
Description: A proven solution to all the typical, repetitive and daily design tasks performed by structural engineers. By carefully combining building code provisions, proven analysis techniques, and standard materials into simple and elegant software, you can quickly design, analyze, or optimize all your daily design tasks.

FabTrol Systems, Inc.
Phone: 541-485-4719
Email: info@fabtrol.com
Web: www.fabtrol.com
Product: FabTrol Pro
Description: Steel Fabrication Management Software

Hilti, Inc.
Phone: 800-879-8000
Email: us-sales@hilti.com
Web: www.us.hilti.com
Product: PROFIS Anchor and PROFIS DF

IES, Inc.
Phone: 800-407-0816
Email: sales@iesweb.com
Web: www.iesweb.com
Product: VisualAnalysis
Description: Engineers have enjoyed solving problems with our easy-to-use, flexible, general analysis tool. With 20-years of customer-tuning, you will wonder why you struggled with anything else.

Integrity Software, Inc.
Phone: 512-372-8991
Email: sales@softwaremetering.com
Web: www.softwaremetering.com
Product: SOFTRACK
Description: Provides Calendar Hour control for all your Bentley applications and helps you reduce or eliminate quarterly trust licensing overage billings by Bentley.

Losch Software Ltd
Phone: 323-592-3299
Email: LoschInfo@gmail.com
Web: www.LoschSoft.com
Product: LECWall
Description: Concrete column and sandwich wall design and analysis. Includes handling design, prestressed and mild reinforcing.

MadSoftware, Inc.
Phone: 720-362-2470
Email: info@madsoftware.net
Web: www.madsoftware.net
Product: AxisVM
Description: Advanced Visual Modeling for most engineered structures. Linear, Non-Linear, Buckling, Vibration, Seismic, Dynamic analysis.

The Masonry Society
Phone: 303-939-0700
Email: info@masonrysociety.org
Web: www.masonrysociety.org
Product: Masonry Codes and Guides
Description: The 2013 edition of the code and minimum specification is now available. A major update from the 2011 edition both in technical requirements and in layout. This edition will be referenced by the 2015 ICB for the design and construction of structural masonry, veneer, and glass unit masonry.

National Concrete Masonry Association
Phone: 703-713-1900
Email: dgraye@ncma.org
Web: www.ncma.org
Product: Direct Design Software
Description: Using the IBC and IRC-referenced Standard Direct Design Handbook for Masonry Structures (TMS 080-13), this software package allows users to generate final structural designs for whole concrete masonry buildings in minutes.

Product: Structural Masonry Design Software Version 6.1
Description: Now updated to include the 2012 International Building Code and 2011 MSJC. Includes new larger allowable stresses per code. Designs walls, columns, lintels and much more.

Product: SRW Design Software – SRWall
Description: Superior segmental retaining wall (SRW) designs produce superior results. Stay on the cutting edge of SRW design with the latest industry standard design tools. 30-day free trial download.

Nemetschek Scia
Phone: 877-808-7242
Email: info@scia-online.com
Web: www.nemetschek-scia.com
Product: Scia Design Forms
Description: Engineers can easily script custom calculations and output professional reports showing the exact formulas used to derive a check. Checks can be run as stand-alone, or linked to Scia Engineer. Imagine being able to write checks linked your FEA software. Download the FREE trial.

Product: Nemetschek Scia
Description: Request a FREE trial and plug structural analysis and design into today’s 3D workflows. Tackle larger projects with advanced non-linear and dynamic analysis. Design to multiple codes and script your own custom checks. Plug into BIM with links to Revit, Tekla, and others.

Powers Fasteners
Phone: 985-807-6666
Email: jack.zenor@sbdinc.com
Web: www.powers.com
Product: Powers Design Assist (PDA)
Description: Enables users to input technical data into a dynamic model environment; to specify anchors. PDA-360 is a FREE online version of our popular anchor design software. Powerful calculations with fast, detailed results. Works with any popular internet browser or mobile device.
RISA Technologies
Phone: 949-951-5815
Email: info@risa.com
Web: www.risa.com
Product: RISA-3D, RISAFloor and RISAFoundation
Description: Developing cutting-edge structural design software for over 25 years, RISA software products are used around the world for buildings, stadiums, bridges and everything in between. RISA-3D, RISAFloor, and RISAFoundation allow you to work with steel, concrete, timber, masonry, aluminum and cold-formed steel in a single, seamlessly integrated model.

S-FRAME Software
Phone: 203-421-4800
Email: info@s-frame.com
Web: www.s-frame.com
Product: S-FRAME R11
Description: S-FRAME Analysis, an industry standard for over 30 years, is a powerful, efficient 4D structural analysis and design environment with fully integrated steel, concrete and foundation design and optimization tools. Use S-FRAME to perform linear or advanced non-linear analysis on buildings and industrial structures. Includes advanced BIM and CAD links.

Simpson Strong-Tie
Phone: 925-560-9000
Email: web@strongtie.com
Web: www.strongtie.com
Product: Simpson Strong-Tie® CFS Designer™ Software
Description: Simpson Strong-Tie® CFS Designer™ Software is an automated design tool interface, allowing for quick and easy design of commercial light gauge steel framed structures.

Standards Design Group, Inc.
Phone: 800-366-5585
Email: info@standardsdesign.com
Web: www.standardsdesign.com
Product: Window Loads on Structures
Description: Performs all required calculations to design window glass according to ASTM E 1300-09, ASTM E 1300 02/03/04, ASTM E 1300-98/00 and ASTM E 1300-94. GANA endorses WGD5 as best tool available in designing window glass to resist wind and long-term loadings.

Strand7 Pty Ltd
Phone: 252-504-2282
Email: anne@beaufort-analysis.com
Web: www.strand7.com
Product: Strand7
Description: Advanced, general purpose, FEA system used worldwide for a wide range of structural analysis applications. Strand7 can be used as a standalone system, or with Windows applications such as CAD software. It comprises pre-processing, solvers (linear and nonlinear, static and dynamic) and post-processing.

Structural Engineers Inc.
Phone: 540-731-3330
Email: tmurray@floorvibe.com
Web: www.floorvibe.com
Product: FloorVibe v2.20
Description: Proposed floor designs can be analyzed to determine if they meet the AISC Design Guide 11 and the SFJ Technical Digest No. 52nd Ed. using FloorVibe v2.20. Floor framing can be hot-rolled, joists, or built-up sections. Expert advice provided for all required input and results.

Struware, LLC
Phone: 904-328-5934
Email: info@struware.com
Web: www.struware.com
Product: StratEd
Description: Simplifies ASCE 7 & IBC (and codes based on these) live and dead loads for your building in just minutes. Simples ASCE 7, IBC (and codes based on those) by catching the buts, ifs, insteads, footnotes and hidden items that most people miss. Demos at website.

Tekla Inc.
Phone: 770-426-5105
Email: info.us@tekla.com
Web: www.tekla.com
Product: Fasttrak
Description: Dedicated software to automate the design and drafting of steel buildings. Design simple and complex buildings to US codes and then export models directly to BIM compatible software, such as Tekla Structures.

USP Structural Connectors
Phone: 800-328-5934
Email: uspcustomerservice@mii.com
Web: www.uspconnectors.com
Product: USP Specifier
Description: Simplifies access to information on over 5,000 structural connectors. Looking up connector capacities, viewing code evaluation reports and even mapping from competitor products to USP products are a snap with just a couple of clicks. Download the FREE USP Specifier software at the website.

WoodWorks® Software
Phone: 800-844-1275
Email: sales@woodworks-software.com
Web: www.woodworks-software.com
Product: WoodWorks Design Office 10
Description: Conforms to IBC 2012, ASCE7-10, NDS 2012, SDPWS 2008; SHEARWALLS; designs perforated and segmented shearwalls; generates loads; rigid and flexible diaphragm distribution methods. SIZER: designs beams, columns, studs, joists up to 6 spans; automatic load patterning. CONNECTIONS: Wood to: wood, steel or concrete.

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