CSiCOL Version 8.4.0

Release Date: 2008-09-22

CSiCOL V8.4.0 is a minor update to CSiCOL V8.3.2. It is available as a full installation on CD or on the ftp as a patch from versions 8.0.0 and later.

PLEASE READ THIS FILE!

It contains important information that is more current than what is in the Manuals.

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1. Installation Instructions for CSiCOL Version 8.4.0

The installation instructions are available in three places:

- The “CSiCOL Installation Card” link on the CSiCOL CD browser.
- A printed document included with the program package.
- In the file *CSiCOL_Install_Instructions.pdf* in the root folder of the CD.

The instructions include information about the software protection system used and installation options and instructions. You can choose between a Standalone or Network installation.

2. Network License Manager

For new Network installations, see the *License Manager System Administrator’s Guide* for more detailed information about the License Manager and the License Manager Administration program “WlmAdmin.exe”.

This installation contains the License Manager program SentinelLM 7.2.0.23.

- If you are currently running a later version of SentinelLM then you do NOT need to install SentinelLM 7.2.0.23

- If you are currently running an earlier version of SentinelLM then it should be uninstalled prior to installing this version. ***IMPORTANT!*** All commuter licenses should be checked in before uninstalling the old version.

If you experience problems with the license please refer to the appropriate "*License Trouble Shooting Guide...*" located in the CSiCOL folder.

3. Updating older Version 8.xx from the ftp

The V8.4.0 update from the ftp is a full installation. Installing this will uninstall older versions 8.xx.

4. Significant Changes from Version 8.0.0

We have listed only significant changes here. For a complete list of changes, please see the separate file ReleaseNotes.PDF located in the CSiCOL installation folder.

Changes from Version 8.3.2 to Version 8.4.0 (issued 09/22/2008)

Enhancements Implemented

- *Incidents 13095 and 14417:* Added design codes ACI 318-05 and IBC 2006.
- Other minor enhancements as detailed in ReleaseNotes.pdf.

Incidents Resolved

- *Incident 14414:* An Incident was resolved in which the P-M-M interaction surface was not always correct for code ACI 318-02.
- *Incident 14415:* An Incident was resolved in which the K-factor calculator sometimes produced incorrect results
- Other minor Incidents, as detailed in ReleaseNotes.pdf.

Changes from Version 8.3.1 to Version 8.3.2 (issued 01/30/2006)

- Composite columns are now being handled.

Changes from Version 8.3.0 to Version 8.3.1 (issued 05/08/2005)

- Indian code has been added to the list of design codes handled by CSiCOL.
- Design based on EuroCode 2 updated.
- Design based on BS code updated.
- Minor bug fixes.

Changes from Version 8.2.2 to Version 8.3.0 (issued 04/08/2005)

- EuroCode 2 has been added to the list of design codes handled by CSiCOL.
- Minor bug fixes.

Changes from Version 8.2.1 to Version 8.2.2 (issued 09/20/2004)

- Minor bug fix to capacity ratio calculation. A round off problem which affected rare cases has been corrected.

Changes from Version 8.2.0 to Version 8.2.1 (issued 07/29/2004)

- Demo issued on CD.

Changes from Version 8.0.1 to Version 8.2.0 (issued 07/14/2004)

- New functionality for computing stress strain profile across cross-sections for given loading has been included.
- The BS-8110-97 code has been added to the list of design codes handled by CSiCOL. Both, the capacity calculations and slenderness calculations are implemented.
- Additional points have been added in P-M curves to refine the location of the maximum axial load cut off value for all codes.
- Custom and predefined material properties for concrete and steel. Predefined Properties are made non-editable.
- Convergence for Neutral Axis for axial tension improved.
- Correction for Maximum Axial Load Capacity value for ACI-318-02.
- Capacity ratio reporting for loading cases comprising only axial tension corrected.
- Cracked Stress renamed to Ultimate Stress due to the fact that these stresses are computed based on the ultimate strain condition.
- Neutral Axis Location is renamed to Ultimate Neutral Axis Location due to the fact that the NA Location is computed based on the ultimate strain condition.
- P-M curves for ACI-318-02 were not smooth at high moment values. This has been fixed.
- The reporting of geometric properties has been made consistent:
    - The overall Section Properties are “Transformed” base material defined in Material Data.
    - Individual Shape Properties are Gross, without transformation.
    - Separate Concrete Area is reported and used for calculation of Rebar Ratio etc.
- The Elastic Stress plots now include the material modular ratio with respect to base material
- Calculations (Capacity, M-Fi, Interaction Curves, Stress Plots etc.) are performed only if at least one Concrete shape is present.
- When pasting from Clipboard, the items in first column were lost. This has been fixed.
- The maximum compressive and tension capacity in Interaction Curves did not account for Fy other than default. This has been fixed.
- The Zoom commands were not linked to the Menu Items. This has been fixed.
- The concrete strength is displayed with each shape on the cross-section view.
- Reporting has been modified to include the above changes.

Changes from Version 8.0.0/1 to Version 8.0.1 (issued 01/16/2004)

Modifications and Enhancements:

- New concrete types (fc=2.0 ksi, fc=210kg/cm2 and fc=280kg/cm2) have been added in all units
- The material file needs to be installed in application directory
- Convergence of Neutral axis for Pu=0 and Muy=0 etc. improved. Special checks added for uniaxial and Pu=0 case for converging neutral Axis

- Mouse movement on stress plots in 2D view shows stress and coordinates
- Improvements in Shape Coordinates and Rebar Coordinates editors
- Export for rebar coordinates added on the Rebar Coordinates editor
- New feature to check overlapping bars has been added
- Graphics added to report now have appropriate titles
- Rebar editor can be activated without adding bars first to import rebars from text files
- New feature to add bars along a line added
- Properties corresponding to the material library list available are made non-editable. A Custom property has been added for users to define material properties other than those provided in the library list
- By default the Circular Column form provides Spiral lateral reinforcement

Errors Fixed:

- The Rectangular column form had switched Rebar assignment for case 4. This has been fixed.
- Relative sway units corrected on the Sway Check and Column Loads form
- Color indication for rebar stress corrected
- Rectangular column rebar layout option 5 fixed
- Update of Material properties from Section to Shape has been fixed
- The display of cracked section stresses for zero moment was being computed correctly but was not being updated for top and bottom end. This has been fixed
- The Capacity vector and Load vector column were not reporting consistent values. The entire logic for presenting the Capacity Vector and Ratio has been changed. It is now consistent with the Capacity Method being used and also includes the method in remarks.
- Copying and pasting of Row in the Shape Layout Editor has been disabled.
- Paper Grid Size form has been connected to the View > Set Grid menu command.
- Stress is reported with an ‘f’ symbol rather than an ‘fs’ symbol which was used previously

Changes from Version 8.0.0 to Version 8.0.0/1 (issued 10/30/2003)

- Minor change to Material List and User Rebar working