



CADS STEELWORK MEMBER DESIGNER RELEASE NOTES



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Release Notes

Thank you for upgrading to the latest version of CADS Steelwork Member Designer.
These release notes summarise the enhancements and corrections made.

Version 3.72 (Build 423): April 2018

Corrections made:

1. In previous version, a spurious message was displayed when haunch sections were imported from A3DMAX with automatic self weight selected. This has now been corrected.
2. Slow boot-up problem is now fixed.

Version 3.71 (Build 414): November 2017

Enhancements:

1. Cloud licensing is now supported.
2. Branding and icons have been updated.

Version 3.63 (Build 382): November 2014

Corrections made:

1. In previous versions, under certain circumstances, the autodesign function did not find the optimum section. This has now been corrected.
2. An issue with the software crashing when user defined steel grades are used has now been corrected.

Version 3.62 (Build 364): May 2014

Corrections made:

1. In certain rare circumstances it was found that whereas the position and value of the maximum combined effects utilisation was correctly reported, the position and value of the normal

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maximum bending utilisation was not. This did not affect the design outcome but the logic has been refined to resolve the anomaly.

2. Under some sequences a spurious message was shown when performing auto design. This is fixed now.
3. In certain circumstances, graphical printout did not fill an A4 page acceptably. This is fixed now.

Version 3.61 (Build 347): December 2013

Corrections made:

1. Sloping members with haunch sections had a problem when auto design is performed. This is fixed now.

Version 3.60 (Build 346): February 2013

Corrections made:

1. In certain circumstances, auto design produced different results when switching section properties from UK6 to UK ADVANCE. This is now fixed.
2. In certain circumstances, the SW Member Designer application was running in the background even after closing it. This is now fixed.

Version 3.59 (Build 332): June 2012

Enhancements:

1. The version number has been incremented due to changes in supporting software. There are no functional changes.

Version 3.58 (Build 302): June 2011

Corrections made:

1. In Analyse 3D / A3D MAX, Design/Check results, if Details is selected for a member and so calculated in CADS SWMD, the results are now reported back to the Design & check results dialog with the Design parameter file reference updated.

Version 3.57 (Build 297): February 2011

Enhancements:

1. For the BS steel member group, the user can now create new templates from Analyse 3D/A3D MAX with a user defined name, reuse the existing template from the dropdown and browse to open old SWMD templates.

Version 3.56 (Build 291): September 2010

Enhancements:

1. CADS SW Member Designer is made compatible with Microsoft Windows 7.

Corrections made:

1. The default section now points to the UK Advanced section table. Hence any new jobs will by default refer to sections from this section table (UKB, UKC etc).
2. Calculation of effective section areas for sections with bolt holes in compression is updated and corrected.
3. Sloped members with haunch sections had a problem with lateral buckling results when a restraint was positioned exactly at the haunch start. This is now fixed.

Version 3.55 (Build 284): November 2009

Corrections made:

1. End 2 effects' messages incorrectly appeared for imported members with end 2 completely fixed. This has been corrected.
2. Automatic self weight was applied in erroneous (normal) direction for vertical and inclined members. This has been corrected.
3. When exporting/importing joined members with 'ball-pinned' or 'pinned-ball' or 'ball-ball' ends [end1-end2], error messages were appearing incorrectly. This has been corrected.

Version 3.54 (Build 279): April 2009

Enhancements:

1. In certain circumstances user modifications to the default effective length factors were applied incorrectly in torsional buckling checks. This has been corrected.
2. In certain circumstances, P-delta related warnings appeared even though P-delta was not activated, this has been corrected.

Corrections made:

1. The program does not check for web buckling and bearing due to concentrated reactions and loads. These are considered to be connection issues and should be checked separately by hand calculation or using appropriate connection software.

Version 3.53 (Build 270): June 2008

Enhancements:

1. The following changes are incorporated in accordance with BS 5950-1:2000 Amendment 1 (2007) and Corrigendum 2 (2008).
 - a. The slenderness correction factor (n_t) formula in Annex G.4.3 is modified in accordance with Corrigendum 2 (2008).
 - b. The condition ' $S_{yeff} \leq S_y$ ' has been added to the expression for S_{yeff} in clause 3.5.6.2 for I or H sections with equal flanges.
2. For any two adjacent members to form a single design object (joined member), the end of the first member and the start of the second member should be fixed. A check has now been introduced to this effect and the following warning message will be displayed when the condition is not satisfied when trying to export joined members to SWMD from frame analysis software.
3. "Consecutive members which are discontinuous because of pin, ball or partially fixed end conditions cannot be joined as single design objects"

Corrections made:

1. The 'rotate' icon in the 'Member Properties' dialog was not visible in the previous version. It has now been reinstated.
2. When negative moment was applied along with any other load type in either the Imposed or Wind load category the loading view was corrupted. Also when the job was saved and reopened the main view disappeared. This problem has been fixed.

Version 3.52 (Build 267): February 2008

Corrections made:

1. User defined welded sections created using 'CADS Section Tables' were not recognised when exported to SWMD from A3D MAX. This has been fixed.

Version 3.51 (Build 266): December 2007

Enhancements:

1. CADS SW Member Designer is made compatible with Microsoft Windows Vista.
2. The old start up splash image has been replaced with a fresh new image.
3. The CADS SMART Designer Launcher has been replaced with the new CADS System – Analysis, Modelling and Design Launcher bringing all CADS structural analysis and design products together.
4. The new (2006) range of steel sections from Corus (Advance sections, Celsius 355, Jumbo 355 and Hybox 355 sections) are now included in the Steel section library.

Corrections made:

1. Local capacity results "Combined utilisation" value was reported inconsistently in the printout. This has been corrected.
2. In SWMD> Results> Local capacity> Local buckling (major and minor)> Details, the following texts are changed:
"Web axial classification" to "Web class - compression only" and "Web bending class" to "Web class for interaction".
3. For more accurate presentation the result for 'Web class – compression only' (formerly Web axial classification) will now be either 'Slender' or 'Non-slender' instead of reporting the class like plastic, compact or semi-compact. This will not apply to 'Web class for interaction'.
4. An 'Export to Word' option is now available for text export in the Print layout dialog, the 'Word Macro' option is removed and the dialog has been modified accordingly.
5. The temporary files created to enable Print Preview are now cleared after closing the Preview.

Version 3.50 (Build 256): October 2006

Enhancements:

1. Suppress Deflection Check (SDC) option is introduced in the 'Design Codes' dialog.
2. "Tension Only" template is now added to make use of design of Tension only members.

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3. Suppress Buckling Check (SBC) and Suppress Deflection Check (SDC) controls are now implemented for Auto Design also.

Corrections made:

1. "Out of Range error" & "Range display error" appeared in the Deflection Limits dialog. This has been corrected.
2. When the System screen and font configuration was changed to 1680x1050 and Large, on selecting the load combinations screen, on clicking any field, the field text went blank. This has been corrected.

Version 3.49 (Build 254): June 2006

Enhancements:

1. Manual and Demonstrations are made available through the Help menu.
2. CADS Online feature is introduced to let you know the latest information about the product. The frequency of displaying the message is configurable.

Corrections made:

1. Selecting the lightest section offered by auto design caused a crash in a customer's job. This has been corrected.
2. Load combinations other than the first five were not displayed in the load combinations page due to the scroll bar not getting activated. This has been corrected.

Current version known limitations

1. Torsion moments may not be input in 'stand-alone' mode and the program will ignore any torsion moments present in member data produced by frame analysis.
2. Note that Analyse3D and A3D MAX programs provide the facility to neglect torsional stiffness of members as in traditional design practice. See Analysis options>Torsion less analysis.

Post-installation notes

Once you have installed CADS SW Member Designer, it must still be authorised before it can be used. The procedure is the same for stand-alone and network installations. For network installations, you should ensure you have the necessary permissions to write to and create directories on your server drive before starting.



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To start CADS SW Member Designer, select the 'CADS System - Analysis, Modelling & Design' icon from the Desktop or 'CADS' program group (Start->Programs) and then click on the 'SW Member Design' button from the 'Steelwork' tab. If the program is not authorised the licence manager will be invoked automatically, through which the licence can be requested.

At any time, a licence can be requested by pressing the "Licensing Wizard..." button and the application can be licensed by pressing the "Enter/Import Licence Codes..." button of the CADS Licence Manager.

For details refer to the CADS Licence Manager help.

If you have any questions about this procedure, please contact our Technical Support Department who will be happy to help.

Technical support and Authorisation codes:

Telephone: +44 (0)1202 603733

Email (Support): support@cadsw.co.uk

Other useful addresses are:

Email (Sales): sales@cadsw.co.uk

Website: <http://www.cadsw.co.uk>

Fax.: +44 (0)1202 658549

Version history

Version information prior to those versions listed within this document can be found in the file 'readme.txt' within the application folder.

