

CADS UK DESIGN DVD 2018.1 ANALYSIS AND DESIGN RELEASE NOTES







CADS UK Design DVD 2018.1 Release notes

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CADS UK Design DVD 2018.1

Thank you for upgrading to the latest Design DVD 2018.1.

These release notes summarise the enhancements and corrections made across all software.

CADS UK Design DVD 2018.1 can be installed on Windows 7, Windows 8.1 and Windows 10.

General enhancements

- 1. The branding and icons have been updated across all software.
- 2. The BS and Eurocode licences have been combined for Analyse 3D, A3D MAX, RC Beam Designer, RC Column Designer, RC Pile Cap Designer, RC Pad Base Designer, Steelwork Member Designer and Masonry Wall Panel designer MAX.
- 3. Cloud licensing is now supported for Analyse 3D, A3D MAX, RC Beam Designer, RC Column Designer, RC Pile Cap Designer, RC Pad Base Designer, RC Slab Designer, Steelwork Member Designer, Composite Beam Designer, Moment Connection Designer, SMART Portal 2D, SMART Portal 3D, Masonry Wall Panel Designer and Masonry Wall Panel Designer MAX.

CADS A3D MAX

Enhancements:

- 1. CADS A3D MAX now calculates the self-weight of steelwork haunches.
- 2. Integrated design of steel members to Eurocode 3, now identifies Effective Class 2 webs.
- 3. Integrated design of steel members to Eurocode 3, now supports Class 4 haunches.
- 4. Integrated design of steel members to Eurocode 3, has an improved restraints defining option.

Corrections made:

- 1. In the classic user interface, the toolbar position reverted to the default position whenever it was re-opened. This has now been fixed.
- 2. A3D MAX crashed while stretching nodes in the last released version. This has now been fixed.
- 3. Bending moments for angle sections were calculated incorrectly in the integrated design of steel members to the steelwork Eurocode (EN 1993-1-1) as part of A3D MAX. This has now been fixed.
- 4. Various issues in integrated design of steel members to Eurocode 3 have now been fixed.



CADS Analyse 3D

Enhancements:

- 1. CADS A3D MAX now calculates the self-weight of steelwork haunches.
- 2. Integrated design of steel members to Eurocode 3, now identifies Effective class 2 webs.
- 3. Integrated design of steel members to Eurocode 3, now supports Class 4 haunches.
- 4. Integrated design of steel members to Eurocode 3, has an improved restraints defining option.

Corrections made:

- 1. In the classic user interface, the toolbar position reverted to the default position whenever it was re-opened. This has now been fixed.
- 2. A3D MAX crashed while stretching of nodes in the last released version. This has now been fixed.
- 3. Bending moments for angle sections were calculated incorrectly in the integrated design of steel members to the steelwork Eurocode (EN 1993-1-1) as part of A3D MAX. This has now been fixed.
- 4. Various issues in integrated design of steel members to Eurocode 3 have now been fixed.

CADS SMART Engineer

Corrections made:

- 1. In the retaining wall templates, when the wall base/thickness is very long, the overturning moment was calculated as negative and reported that the retaining wall is unstable. This is now fixed.
- 2. In the retaining wall templates, the pressure coefficients calculation is now restricted to Coulomb theory when the retained soil surface is sloped.
- 3. In the retaining wall templates, the "Angle of pressure resultant" value has been defaulted to zero and its range has been changed from `0 to 50 degrees' to `0 to $0.67* \, \phi'$ '.
- 4. Under the foundations tab "Retaining wall Rankine and Coulomb's theories" and "Retaining wall with key and differing soils" templates have been removed because of conflict with "RC retaining walls stability check".

CADS SMART Portal 3D

Corrections made:

When wind speeds were imported from VelVenti, the correct values were used only for near frame/near posts and the default values were used for all other cases. This has now been fixed.

