

CADS GEOTECHNICAL DVD 2019.1 RELEASE NOTES





Microsoft Partner

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1 Release notes

Thank you for upgrading to the latest version of the CADS Geotechnical Suite.

These release notes summarise the enhancements and the corrections that have been made.

2 CADS Geotechnical DVD: April 2019

2.1 CADS Piled Wall Suite

2.1.1 Version 6.03 (Build 2010)

Corrections made:

- 1. Fixed an issue with wall stiffness errors that affected the deflection results;
- 2. Fixed an issue with change in pile toe level, where the passive ground level is below the originally set pile toe level.

2.1.2 Version 6.01 (Build 2006)

Version 6 has considerable upgrades to the scope and functionality of the software including the following items:

- 1. Eurocode 2 compliant design of concrete walls;
- 2. Eurocode 3 compliant design of steel walls;
- 3. Eurocode 7 analysis in the slip circle module;
- 4. Revised tab interface with a simpler layout consistent with other CADS software;
- 5. Finite slopes on the active side of the wall;
- 6. Berms on the passive side of the wall;
- 7. Libraries of steel sections hard coded into the software which makes transferring data files between different installations more robust;
- 8. Printing system improved with greater control of output;



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GADS PWS (example 1 - eff stress - da1c1.pws)									-			×
Elle Elep 	<u>v-4</u>	A 2 A 3	Stage type Active surcharge Active water level Passive side excavation Passive water level	Level m 0.00 -1.00 -4.00 -5.00	Load value 10.0	Load units kN/m2	Offset m 0.00	Width m	Length m	Height m	Angl degree	
	1	9 10 11 12 12 Partial fac	ctors have been applied in ate wall deflections perform completed.						nal lumpe	d FOS ar	nalysis.	•
Outline of Pile Wall Outline Image: Envelope Geometry, Soils and Water Analysis Options Wall Analysis Wall Analysis	all Design Slip Circles Tied Wall Coffer		:Stage Delete Sta	ige S	itage Ge	nerator						
Codes and Factors General settings Deflection settings Code of practice or reference document. Select an appropriate code of practice or reference document for the analysis of the wall. The remaining sections of this tab show detailed options which can only be edited if the custom code selection is used. C tria R104 Burland and Potts - Permanent Works C tria R104 Burland and Potts - Temporary Works (Drained) C P21951 Code of practice on earth retaining structures. C R5C PBC PBC and Amod Potts - Demonstrations structures.	Global stability factor (apples to main wa The global stability factor is a lumped fac equilibrium analysis. The factor is the one stability factor is then any is exults for b (rotation) or anchors (translation). General this factor is unity. Global stability factor 1.00 Appled to 6 forces passive soil p C Nett passive pressu	e reporte ooth the n ally for UL pressures ires	in limit das the nain wall Fa .S analysis Fa	l load factor ctor on soil ctor on wat	pressure er pressu	/ s res L	Active side 1.3 1.3	Pa sic 5 [5 [plied Lo	assive le 1.35 1.35 ads appli the wall 1.50	ed		
BSC Piling Handbook (Sixth edition) Eurocode 7 ULS - Design Approach 1 - Combination 1 Eurocode 7 ULS - Design Approach 1 - Combination 2 Eurocode 7 SLS - For deflection calculation Custom parameters (Based on last code selected) Wall deflections are not calculated for any analysis where load factors or al strength factors above unity are specified. This is because deflections should be taken from a serviceability furfactored landwiss rather than a ULS analysis.	C Nett available passi Factors on embedment (applies to main v FDS on embedment Additional embedment factor on cantilev wall as part of calculation method	wall analı	vsis only) Partia 1.00 Fa 1.20 Fa	l factors on ctor on Tar ctor on drai ctor on und	soil shea (Phi) ned cohe Irained co	r strength	(main wa 1.0 1.0 1.0	all and ar				

2.2 CADS ReSlope

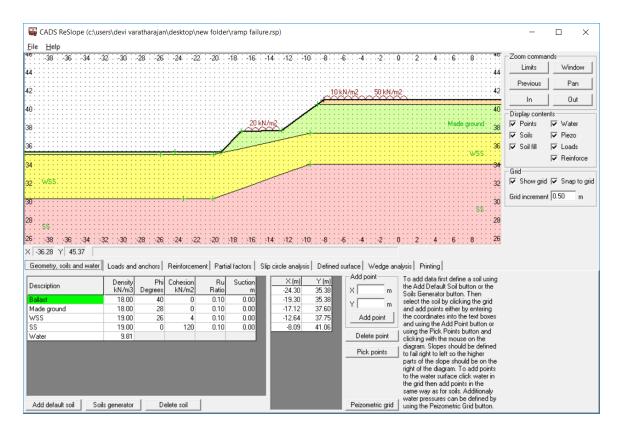
2.2.1 Version 2.01 (Build 2005)

Version 2 has considerable upgrades to the scope and functionality of the software including the following items:

- 1. Eurocode 7 geotechnical analysis;
- 2. Explicit definition of ground anchors;
- 3. New tabbed user interface with fewer dialog windows;
- 4. Upgraded graphic display using colour filled areas to represent soils and water regions;
- 5. More flexible input of soil strata and properties;
- 6. Soils generator based on standard borehole descriptions;
- 7. Tie back and two part wedges bought together in single wedge analysis;
- 8. Printing system improved with greater control of output;



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2.3 CADS Bearing Pile Designer

2.3.1 Version 2.01 (Build 2007)

Version 2 has considerable upgrades to the scope and functionality of the software including the following items:

- 1. Eurocode 7 geotechnical analysis.
- 2. Eurocode 2 compliant design of concrete pile shafts.
- 3. Eurocode 3 compliant design of steel pile shafts.
- 4. New tabbed user interface with fewer dialog windows.
- 5. More flexible input of soil strata and properties.
- 6. Soils generator based on standard borehole descriptions.
- 7. Improved handling and definition of steel sections.
- 8. Lateral load analysis added.
- 9. Pile group analysis now EC7 compliant.
- 10. Printing system improved with greater control of output.
- 11. New HTML based help system.
- 12. New software module for design of working platforms for tracked plant.



3 Post-installation notes

Once you have installed the CADS Geotechnical software, it must 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.

To start the software, select the 'Ground Engineering' icon from the Desktop or 'CADS' program group (Start->Programs) and then click on the module that you require. If the program is not authorised the licence manager will be invoked automatically, through which a 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 please 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@cads.co.uk

Other useful addresses are:

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

Website: <u>http://www.cads.co.uk</u>

