



DC-SOFTWARE



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THE SOFTWARE FOR SOIL ENGINEERING

DC-Software product line was developed by DC-Software Doster & Christmann GmbH, Germany. The company provides 20 years of experience in the development of professional solutions for soil mechanics and foundation engineering.

DC-Software offers a convenient graphical user interface. Programs are available separately and as a configuration depending on user's needs.

SOIL MECHANICS AND SUBSOIL INVESTIGATION

DCBORE Bore hole logs acc. to DIN 4023:2006 / EN ISO / VSS / ÖNORM / BS 5930

DCBORE-LS Layer specifications acc. to DIN 4022 p. 1 and EN ISO 22 475-1

DCBORE-LS2 Layer specification acc. to DIN 4022 p. 2

DCBORE-LS3 Layer specification acc. to DIN 4022 p. 3

DCBORE Well Graphics Wells and ground water measuring points acc. to DIN 4943:2005

DCBORE-Geotherm Heat extraction of geothermal borings acc. to VDI guideline 4640

DCPROBE Dynamic probing acc. to DIN 4094 / SN 670 417

DCSECTION Geological sections, site map, Auto-section

DCSECTION Basic Arrangement of bore profiles, SPT, well/gauge and probings on plans up to A0, with drawing functions.

DCGIS Administration of borings, probings, etc. in maps (Geo referenc- ing)

DCCONE Cone penetration tests acc. to DIN 4094

DCSIEVE Sieve and sedimentation analysis acc. to DIN 18123 / SN 670 810/816 / OENORM B 4412 / CEN ISO/TS 17892-4

DCLOAD Plate load test acc. to DIN 18 134 / SN 670 317

DCPRESS Compression / oedometer test

DCPROC Proctor test acc. to DIN 18 127 / SN 670 330

DCCONS Atterberg's consistency limits acc. to DIN 18 122 / SN 670 345 / OENORM B 4411 / CEN ISO/TS 17892-12

DCSHEAR Shear strength test acc. to DIN 18 137

DCDENS Density acc. to DIN 18125 / SN 670 335 / Water content acc. to DIN 18 121 / SN 670 340

DCPERM Permeability test acc. to DIN 18 130 and EN ISO/TS 17892-11

DCPUMP Pump test graphic and evaluation

DCGLOW Glow loss acc. to DIN 18 128

DCLIME Lime content acc. to DIN 18 129

DCCHEM Display of old load survey with limit value database

DCLABTEGRA Integrated soil mechanics. Composition of field and laboratory tests. Mass determination of bore meters and tests.



DC-Software in practice:

Sheet pile walls at the Brenner base tunnel (Brixlegg), sheet pile walls at the Lenbach gardens in Munich, Bore pile and nail walls at the Brenner base tunnel (Brixlegg) (3)

FOUNDATION ENGINEERING

DC-Bearing Bearing capacity analysis

DC-Settle Analysis of settlement of any number of foundations

DC-Footing Analysis of footings (rectangular, strip, circular footings) with all checks and optimization

DC-Footing/Pylon Analysis of footings (rectangular, strip, circular footings) with all checks and optimization

DC-Slope Base and slope failure

DC-Geotex Reinforced earth with geosynthetics

DC-Gabion Analysis of gabions and supporting structures of layered blocks and concrete stack stones

DC-Cantilever Analysis and design of cantilever walls

DC-Pit Analysis of foundation pit walls (bore pile, diaphragm, sheet piling, girder plank walls, MIP). Verification of the transfer of vertical forces

DC-Pit Dimensioning Design of all wall types, infilling (wood, concrete, pile infilling), anchors and booms

DC-Nail Soil nailing including wall design

DC-Underpinning Building underpinnings and retaining walls

Underpinning Optimization Optimization of the wall thickness and anchor forces

DC-Integra Integrated foundation engineering: from the plan to the analysis.

DC-Integra 3D 3D display of foundation pits with exact wall geometry. Automatic generation of slope intersections. Arbitrary sections through the ground model with display of the soil layer levels incl. color and symbols.

DC-Integra 3D/Volume Calculation of the excavation volumes and masses for complex foundation pits, including swell factor per soil layer and total

DC-Integra3D/Pipeworks Display of sewer pipes, water, gas, electricity, district heat, cable trench in the 3D model

DC-Integra3D/Anchors 3D display and collision check of anchors: check for collision with anchors, pipeworks and buildings – for spreading and horizontally deviated anchors

DC-Pile Design of bored, driven, micro piles

DC-Vibro Analysis of vibrocompaction (stone columns)

DC-Dewatering Ground water lowering with multi-well installations

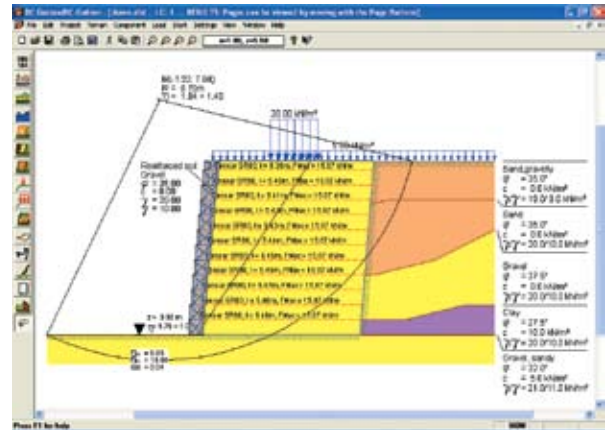
DC-Infilt Analysis of infiltrations

ANALYSIS AND DESIGN STANDARDS

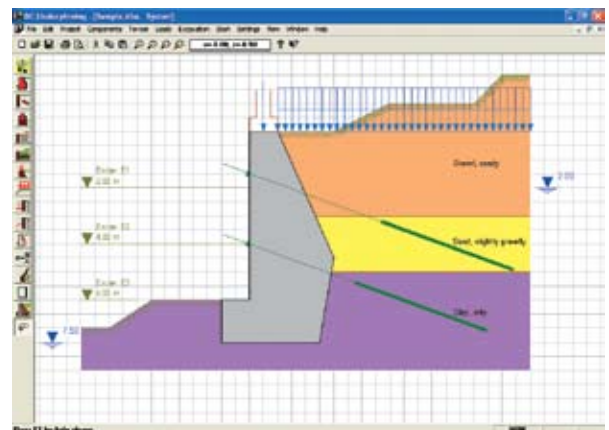
The programs use Eurocode, DIN, OENORM, BS, etc. More information about the standards can be found on our web page. or call us 01642-677582



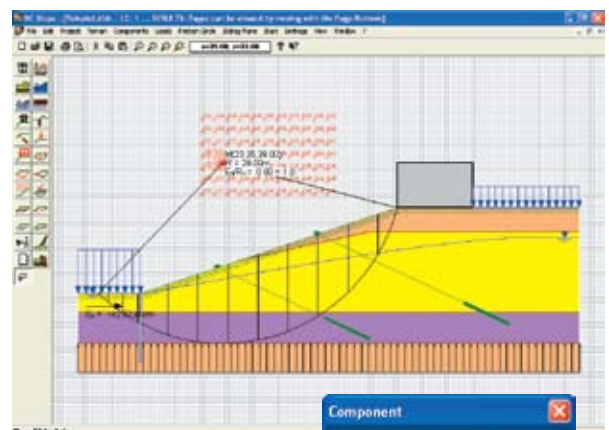
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UK Partner: TCS CAD & BIM Solutions Ltd. www.cadservices.co.uk



DC-Geotex – earth reinforcement



Retaining walls



Analysis acc. to Krey-Bishop

Components definition

Component	
Initial coordinate (x)	10.000
Initial coordinate (z)	8.000
End coordinate (x)	10.000
End coordinate (z)	-3.000
Width (m)	0.500
Shear Resistance (kN/m)	100.000
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