



SVSOLID^{GT}

1D / 2D / 3D FINITE ELEMENT
STRESS DEFORMATION MODELING



SOILVISION

SOILVISION SYSTEMS LTD
120 - 502 WELLMAN CRESCENT, SASKATOON, SK, S7T 0J1 CANADA
TEL: +01-306-477-9324 / FAX: +01-306-555-4575
SOILVISION.COM / CONTACT@SOILVISION.COM

FEATURE COMPARISON						
PRODUCT VERSION	STUDENT	CLASSROOM	STANDARD	PRO	MINING	
General						
Verification, Tutorial, and Example Manuals with Corresponding Models Provided	Yes	Yes	Yes	Yes	Yes	Yes
Create/Edit Models	Yes	Yes	Yes	Yes	Yes	Yes
CAD Windows Interface	Yes	Yes	Yes	Yes	Yes	Yes
Integrated Help System	Yes	Yes	Yes	Yes	Yes	Yes
Batch Analysis of Groups of Models	Yes	Yes	Yes	Yes	Yes	Yes
Windows 7, 8 and 10 Compatible	Yes	Yes	Yes	Yes	Yes	Yes
Multi-Core CPUs, Multi-Threading & 64 bit Environments Supported	Yes	Yes	Yes	Yes	Yes	Yes
Licensed for Engineering Consulting Use (Commercial Licenses Only)			Yes	Yes	Yes	Yes
Geometry						
Number of Regions	10	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited
Number of Materials	3	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited
Number of 3D surfaces	3	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited
Finite Element Cells ¹	Limited ¹	Limited ¹	Unlimited	Unlimited	Unlimited	Unlimited
Staged Construction/Excavation	Yes	Yes	Yes	Yes	Yes	Yes
Import Regions from AutoCAD™ DXF Files		Yes	Yes	Yes	Yes	Yes
Import of Shape Files (SHP)		Yes	Yes	Yes	Yes	Yes
Import of ESRI ASCII Grid Files		Yes	Yes	Yes	Yes	Yes
Slice 3D models to 2D cross section	Yes	Yes	Yes	Yes	Yes	Yes
Coordinate Systems						
2D Analysis	Yes	Yes	Yes	Yes	Yes	Yes
3D Analysis	Yes	Yes	Yes	Yes	Yes	Yes
Analysis and Coupling						
Small-Strain	Yes	Yes	Yes	Yes	Yes	Yes
Large-Strain						Yes
Small-Strain Consolidation with SVFLUX™				Yes	Yes	Yes
Large-Strain Consolidation with SVFLUX™						Yes
Stress-Based Limit Equilibrium with SVSLOPE®				Yes	Yes	Yes
Shear Strength Reduction Method Slope Stability Analysis		Yes	Yes	Yes	Yes	Yes
Material Types						
Linear Elastic	Yes	Yes	Yes	Yes	Yes	Yes
Anisotropic Linear Elastic		Yes	Yes	Yes	Yes	Yes
Duncan-Chang Hyperbolic		Yes	Yes	Yes	Yes	Yes
von Mises		Yes	Yes	Yes	Yes	Yes
Drucker-Prager		Yes	Yes	Yes	Yes	Yes
Mohr Coulomb		Yes	Yes	Yes	Yes	Yes
Cam-Clay		Yes	Yes	Yes	Yes	Yes
Modified Cam-Clay		Yes	Yes	Yes	Yes	Yes
Hoek-Brown		Yes	Yes	Yes	Yes	Yes
Generalized Hoek-Brown		Yes	Yes	Yes	Yes	Yes
Saturated Consolidation Analysis - Supported Material Types						
Linear Elastic				Yes	Yes	Yes
Power Function				Yes	Yes	Yes
Logarithmic Function				Yes	Yes	Yes
Weibull Function				Yes	Yes	Yes
Extended Power Function				Yes	Yes	Yes
Mesh						
Triangular 2D	Yes	Yes	Yes	Yes	Yes	Yes
Quadrilateral 2D	Yes	Yes	Yes	Yes	Yes	Yes
Tetrahedral 3D	Yes	Yes	Yes	Yes	Yes	Yes
Groundwater						
Piezometric Lines	Yes	Yes	Yes	Yes	Yes	Yes
Staged	Yes	Yes	Yes	Yes	Yes	Yes
Finite Element Steady State or Transient Seepage Analysis	Yes	Yes	Yes	Yes	Yes	Yes
Grid / Discrete Points	Yes	Yes	Yes	Yes	Yes	Yes
Undrained Analysis - Skempton's A & B parameters	Yes	Yes	Yes	Yes	Yes	Yes
Supports						
Swell/Split-Set		Yes	Yes	Yes	Yes	Yes
Loads						
Line Load	Yes	Yes	Yes	Yes	Yes	Yes
Distributed Load	Yes	Yes	Yes	Yes	Yes	Yes
Point Load	Yes	Yes	Yes	Yes	Yes	Yes
Ponded Water Load	Yes	Yes	Yes	Yes	Yes	Yes
Staged Loading	Yes	Yes	Yes	Yes	Yes	Yes

¹ Student / Classroom editions are limited to 100 cells in 1D, 400 cells in 2D and 1200 cells in 3D.