


**SVSOLID<sup>GT</sup>**

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

**SOILVISION**

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