

SLOPE/W 2007 Product Details

SLOPE/W 2007 Purchasing Options

GeoStudio 2007						
	Universal	Professional	Standard	SLOPE/W	Basic	Student (Free)
SLOPE/W	●	●	●	●	○	○
SEEP/W	●	●	●		○	○
SIGMA/W	●	●	●		○	○
QUAKE/W	●	●			○	○
TEMP/W	●	●			○	○
CTAN/W	●	●			○	○
AIR/W	●				○	○
VADOSE/W	●				○	○

Key: ● = Full edition (all features) ○ = Basic edition (limited features) ○ = Student edition (limited features)

SLOPE/W 2007 Feature Comparison

	● Full	○ Basic	○ Student
Number of multiple/staged analyses (within one file)	No limit	2	2
Number of regions	No limit	10	10
Number of materials	No limit	10	3
Finite Element Integration	No limit	500 elements	500 elements
Import regions from AutoCAD DXF files	Yes	No	No
Licensed for engineering consulting use	Yes	Yes	No
Analysis Methods			
Ordinary	Yes	Yes	Yes
Bishop Simplified	Yes	Yes	Yes
Janbu Simplified	Yes	Yes	Yes
Morgenstern-Price	Yes	Yes	Yes
Spencer	Yes	Yes	Yes
GLE	Yes	Yes	Yes
SIGMA/W finite element stress	Yes	Yes	Yes
QUAKE/W finite element stress	Yes	Yes	Yes
QUAKE/W Newmark Deformation	Yes	Yes	Yes
Corps of Engineers 1	Yes	No	No
Corps of Engineers 2	Yes	No	No
Lowe-Karafiath	Yes	No	No
Janbu Generalized	Yes	No	No
Sarman (Vertical Slice Only)	Yes	No	No
Advanced Features			
Probabilistic analysis	Yes	No	No
Sensitivity analysis	Yes	No	No
Automatic inclusion of ponded water load	Yes	Yes	Yes
Staged Rapid Drawdown	Yes	No	No
Soil Strength Models			
Mohr-Coulomb	Yes	Yes	Yes
Spatial Mohr-Coulomb	Yes	No	No
Bedrock (impenetrable)	Yes	Yes	Yes

SLOPE/W 2007 Feature Comparison (continued)

● Full

○ Basic

○ Student

Soil Strength Models (continued)

Undrained (Phi = 0)	Yes	No	No
Bilinear	Yes	No	No
S = f(depth)	Yes	No	No
S = f(datum)	Yes	No	No
Anisotropic Strength	Yes	No	No
Shear/Normal function	Yes	No	No
Anisotropic function	Yes	No	No
Combined, S = f(depth)	Yes	No	No
Combined, S = f(datum)	Yes	No	No
S = f(overburden)	Yes	No	No
Add-In material model (user defined)	Yes	No	No

Advanced Soil Parameters

Unsaturated strength from Phi B or SWCC	Yes	No	No
Anisotropic function	Yes	No	No
Unsaturated unit weight	Yes	No	No
Steady-state strength for liquefied material	Yes	No	No
Water content function estimation	Yes	No	No

Slip Surface Options

Grid and Radius	Yes	Yes	Yes
Entry and Exit	Yes	Yes	Yes
Optimize critical slip surface location	Yes	Yes	Yes
Fully Specified	Yes	Yes	No
Block Specified	Yes	Yes	No
Auto Locate	Yes	No	No
User defined axis point	Yes	No	No
Detail results on multiple critical slip surfaces	Yes	No	No

Pore-Water Pressure

Ru	Yes	No	No
B bar	Yes	No	No
Piezometric lines	Yes	One line	One line
Piezometric line with Ru or B bar			
Phreatic correction	Yes	Yes	Yes
SEEP/W heads	Yes	Yes	Yes
SIGMA/W pwp	Yes	Yes	Yes
QUAKE/W pwp	Yes	Yes	Yes
VADOSE/W heads	Yes	No	No
Spatial variation of pressure head	Yes	No	No
Air Pressure interaction	Yes	No	No

External Loads

Point Loads	Yes	Yes	No
Reinforcement Loads	Yes	No	No
Horizontal Seismic Loading	Yes	Yes	No
Vertical Seismic Loading	Yes	Yes	No
Surcharge Loads	Yes	Yes	No

SLOPE/W 2007 Feature Comparison (continued)

● Full

○ Basic

○ Student

Tension Crack Options

Tension crack line	Yes	Yes	No
Tension crack angle	Yes	Yes	No
Auto search for tension crack	Yes	No	No

Interslice Functions

Constant	Yes	Yes	Yes
Half-sine	Yes	Yes	Yes
Clipped-sine	Yes	No	No
Trapezoidal	Yes	No	No
Fully Specified	Yes	No	No
Corps Eng Assumption 1	Yes	No	No
Corps Eng Assumption 2	Yes	No	No
Lowe-Karafiath	Yes	No	No