

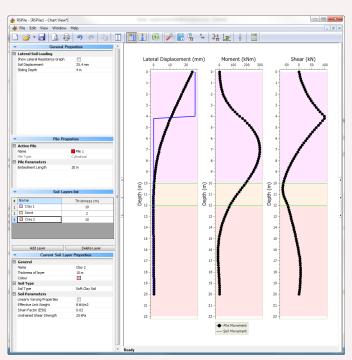


WHAT IS RSPILE?

RSPile is a program for the calculation of the axial load capacity of driven piles and the analysis of piles under lateral loading. Pile resistance functions can be imported from RSPile into Slide for slope stability analyses.

WHY CHOOSE RSPILE?

- Import of pile resistance graphs into Slide for slope stability analysis
- Analysis of both Laterally Loaded Piles and Axially Loaded
- Lateral Resistance Function (multiple soil movement cases)
- Wide variety of pile top loading options
- Extensive results viewing and report generation capabilities (Info Viewer, export to Excel)
- Section database for H-Piles and other common types



Lateral Displacement, Moment, and Shear Graphs from RSPile

PRICES & LICENSING

Personal License: Locked to one computer.

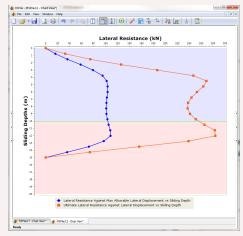
- Personal Perpetual: USD \$595 Purchased outright.
- Personal Lease: USD \$295/year Leased annually. Includes maintenance and upgrades.

Flexible License: Installed on any number of machines. The license file sits on the server.

- Flexible Perpetual: USD \$895 Purchased outright.
- Flexible Lease: USD \$595/year Leased annually. Includes maintenance and upgrades.

Maintenance can be purchased annually for our Perpetual Licenses at 15% of the license cost. With Annual Maintenance you will receive free upgrades and technical support. Contact us at

software@rocscience.com!



Lateral Resistance Graph

Technical Specifications

LATERALLY LOADED PILES

PILE TYPES

- Cylindrical
- Rectangular
- Pipe
- · Common sections
- · Tapered or non-tapered
- Elastic or Plastic

SOIL MATERIALS

- Elastic
- Soft clay soil
- Submerged stiff clay
- · Dry stiff clay
- Sand
- Weak Rock
- User-Defined

PILE TOP LOADING

- Shear and Moment
- Shear and Slope
- Shear and Rotational Stiffness
- Shear and Displacement
- Moment and Displacement
- · Moment and Slope
- Moment and Rotational Stiffness
- Rotational Stiffness and Slope
- Rotational Stiffness and Displacement

PILE TOE LOADING

Shear Resistance

LATERAL RESISTANCE ANALYSIS

- Max Allowable Lateral Displacement
- Ultimate Lateral Resistance
- Both

ADDITIONAL LOADING

- Loading by lateral soil movement
- Transition zone for sliding soil in lateral resistance function
- Lateral Resistance Function (multiple soil movement cases)

ADDITIONAL FEATURES

- p-y modification factors
- Export to Excel
- Export to Slide
- Info Viewer

AXIALLY LOADED PILES

PILE TYPES

- Cylindrical
- Rectangular
- Pipe
- Common sections
- Tapered or non-tapered
- Elastic or Plastic

SOIL MATERIALS

- Elastic
- API Sand
- API Clay
- User-Defined

PILE TOP LOADING

Axial

AXIAL RESISTANCE ANALYSIS

- Max Allowable Axial Displacement
- Ultimate Axial Resistance
- Both

ADDITIONAL FEATURES

- t-z modification factors
- Q-z modification factors
- Axial Resistance Graph (multiple sliding depths)
- Export to Excel
- Export to Slide
- · Info Viewer

AXIAL CAPACITY OF DRIVEN PILES

NON-TAPERED PILE TYPES

- Pipe open and closed end
- Concrete
- H-Pile

TAPERED PILE TYPES

- Timber
- Raymond uniform taper
- Monotube

SOIL MATERIALS

Cohesive / Cohesionless

ADHESION TYPES

- · Adhesion for Cohesive Soils
- Piles Driven Through Soft Clay
- Piles Driven Through Overlying Sands or Sandy Gravel
- · Piles Without Different Strata
- User Defined Adhesion

CALCULATED CAPACITIES

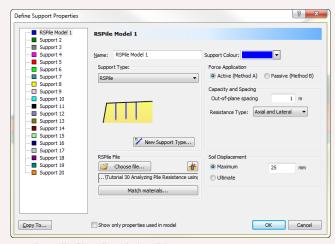
Restrike, Driving, Ultimate

DESIGN CONSIDERATIONS

- Long and short-term scour
- Soft compressible soils
- Negative skin friction

ADDITIONAL FEATURES

- Export to Excel
- Info Viewer



Read RSPile files directly in Slide