

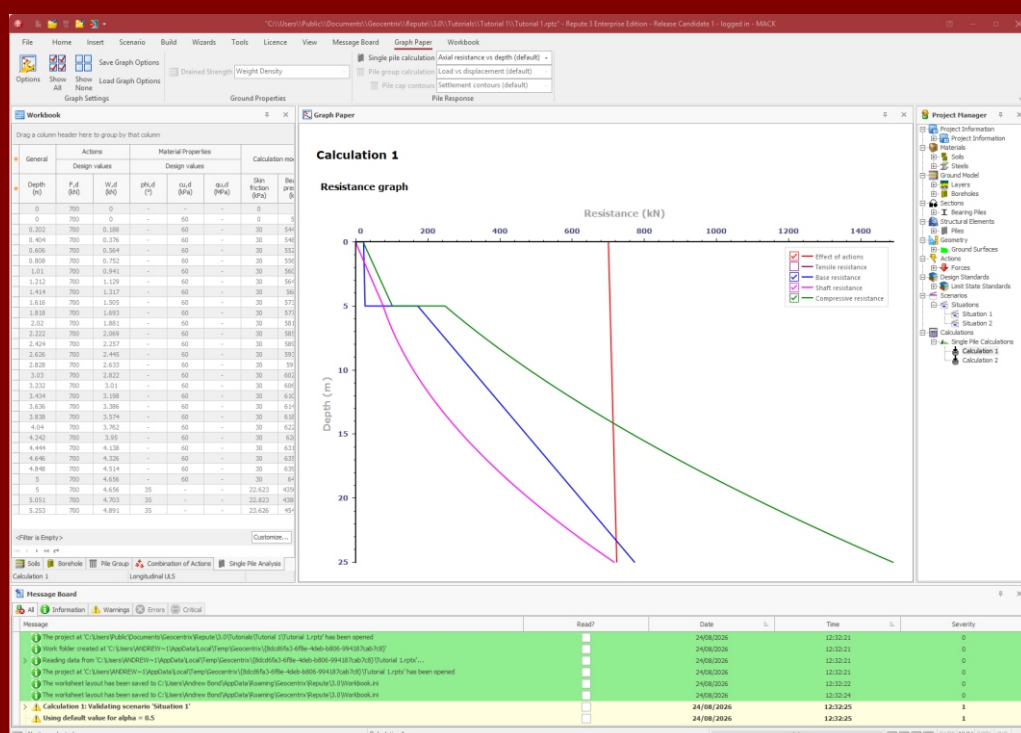


Repute 3

Piled foundation design and analysis

Repute® 3 provides a rich set of tools for designing/analysing piled foundations, including:

- various types of single pile, using current and historical design standards (such as Eurocode 7 & BS 8004)
- pile groups under generalized 3-dimensional loading, using linear or non-linear soil models

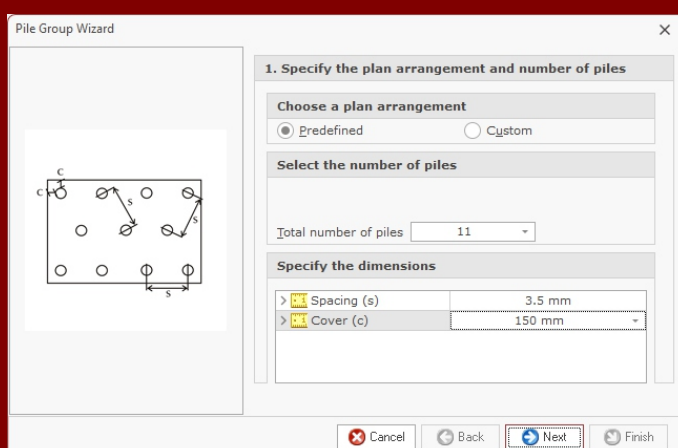


Repute was the first design program to deal efficiently with soil non-linearity, avoiding exaggerated stresses and consequential high loads and bending moments at pile-group corners. This led to greatly improved designs and savings in construction costs.

Repute has been used to design foundations for the iconic Wembley Arch and for the world's tallest building, the Burj Dubai. Repute 3 adds the ability to analyse flexible pile caps as well as rigid caps.

Repute's design capabilities have been further extended to cater for ultimate and serviceability limit state design of single piles, to Eurocode 7 and its various National Annexes. Designs can be fine-tuned by changing the algorithms used in the calculations; factors applied to ensure reliability can be adjusted to suit local practice.

Repute's slick user interface makes projects easy to setup and modify. Specialized wizards help to speed up this process and an extensive reporting system provides high-quality printed output.



Repute 3 comes in three editions: **Standard** (for single-pile design), **Professional** (for pile-group analysis), and **Enterprise** (for both). Both hardware-based (HL) and software-based licences are available as follows: Site (for use on a single computer), Countrywide WAN (for a specified country); or Worldwide WAN (anywhere).



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REPUTE 3 SPECIFICATION

ENGINEERING CAPABILITIES

ULTIMATE LIMIT STATE

- Longitudinal ULS calculation
- Undrained calculations (α -method)
- Drained calculations (β -method and methods based on $K_v \times \tan \delta$)
- Fleming's load vs displacement analysis
- Various design standards, including Eurocode 7, BS 8004, and custom
- National Annexes for UK and Ireland
- Full customization of α , β , bearing capacity algorithm, K_v , δ , and shrinkage

SERVICEABILITY LIMIT STATE

- Linear and non-linear continuum analysis via boundary element method
- BEM calculation engine based on PGroupN version 3, used under exclusive licence from Geomarc
- BEM engine handles up to 350 piles with up to 50 elements per pile
- Caters for piles of varying lengths, diameters, rakes, and moduli
- Full 3-dimensional loading (inc. torsion)
- Various soil models including linear elastic, bi-linear (linear-elastic/perfectly-plastic), and hyperbolic
- Support for fully-rigid and full-flexible pile caps
- Handles up to 50 layers (homogeneous or Gibson profile within each layer)
- Randolph's analysis provides estimate of settlement for single piles
- Fleming's load-displacement analysis

STOCKYARD ITEMS

- Project information: amendment, construction site, & party
- Geotechnical constituents: borehole, ground water table, rigid & soil layers, SPT, & standing water table
- Structural elements: augered, bored, H, & precast piles, plus pile group
- Geometrical objects: observation point, ordnance datum, & plane ground
- Actions: combination of actions, forces, & moments
- Algorithms/standards: see above
- Scenarios: construction stage
- Calculations: see above
- Steels: Corus Advance™ 275 & 355, S235-450, & custom
- Concretes: C8/10-C50/60; C25-C50, & custom
- Materials: chalk, clay, coarse silt, cohesive fill, custom cohesive and granular soils, granular fill, gravel, organic soil, river soil, rock, sand, & silt
- Bearing piles: Corus UKBP™ range
- Sections: square, circular, octagonal, & polygonal

USER INTERFACE

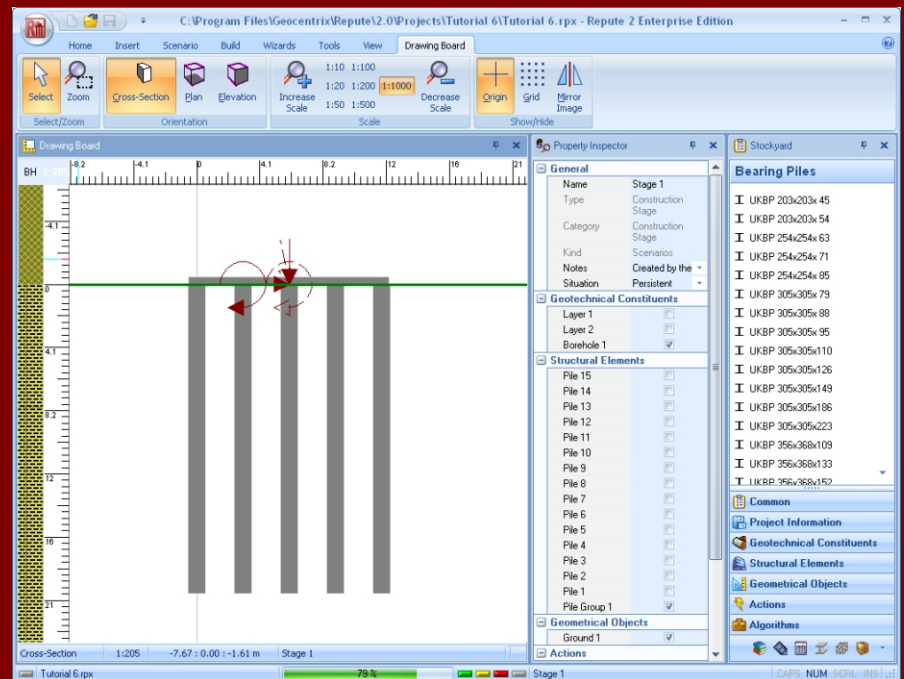
Ribbon interface simplifies program navigation by organizing commands into logical groups separated by tabs.

Drawing Board provides a scaled drawing of the scenario in separate cross-section, elevation, & plan views.

Project Manager displays all the components of the project in a logically grouped tree for easy navigation.

Stockyard contains over 100 ready-to-use engineering items that can be included in the project via drag & drop.

Property Inspector provides quick-access to the properties of all items, synchronized with the Drawing Board.



TUTORIALS

- H-pile in clay and sand
- Fleming's hyperbolic analysis
- Single pile design to Eurocode 7
- Pile group in clay and sand
- Non-linear analysis of pile group in stiff clay overlying rock
- Asymmetric pile group under 3D loading
- Molasses storage tank

DOCUMENTATION

- 100+ page Quick-start Guide*
- 50+ page User Manual*
- Comprehensive Reference Manual

Workbook tabulates the results of all calculations and provides advanced sorting, grouping, and filtering options.

Graph Paper shows results in graphical format with options to alter every aspect of the graph's content and visual layout.

Message Board collects and automatically filters all program-generated messages for easy viewing.

Reporter summarizes key details of the project in highly customizable and easily printable reports

Browser provides convenient access to the Internet with links to commonly-used program information.

TECHNICAL SUPPORT

- 1 year Software ReAssurance included, renewable annually
- Free program updates from website
- Telephone/email support

SYSTEM REQUIREMENTS

- Microsoft® Windows® 10/11
- Adobe® Acrobat® Reader
- 750Mb free space on hard disk

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Repute 3 was developed by Geocentrix