PROMINE
MINING & SURVEYING SOFTWARE

RELEASE NOTES

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Release Notes 2022.14

This document contains the descriptions of new commands and improvements that are included in the 2022.14 version of Promine. These are valid from the release of the version the November 16th, 2022.

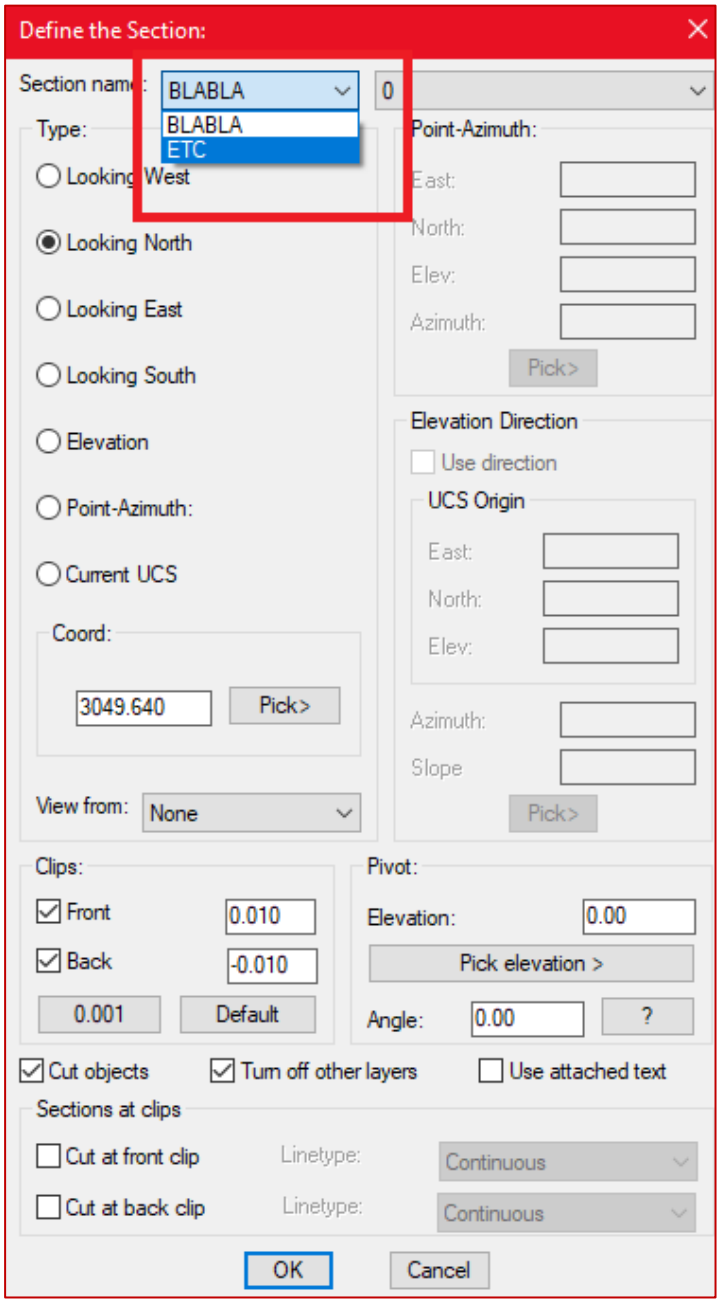
Table of Contents

New features

Module: Sections

SEC1E – Edit 1 section

For this new improvement the sections created with the SEC1 command can now be edited one by one. All the parameters can be changed on an existing section. A window has been added to select which section should be edited:



In the case of the window above the sections available are “BLABLA” and “ETC” and the user can select between any of them and change the specifications if needed.

Note: Since the old sections did not register their parameters, only the sections created after this update will be able to be edited.

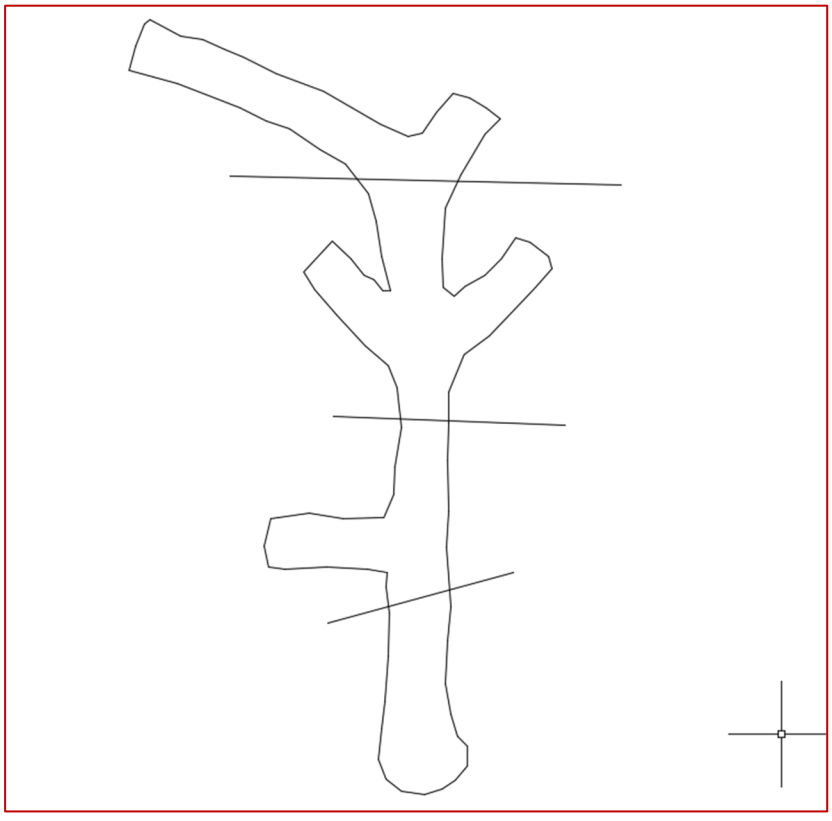
Module: Rock Mech

RKMRMR – Calculate RMR

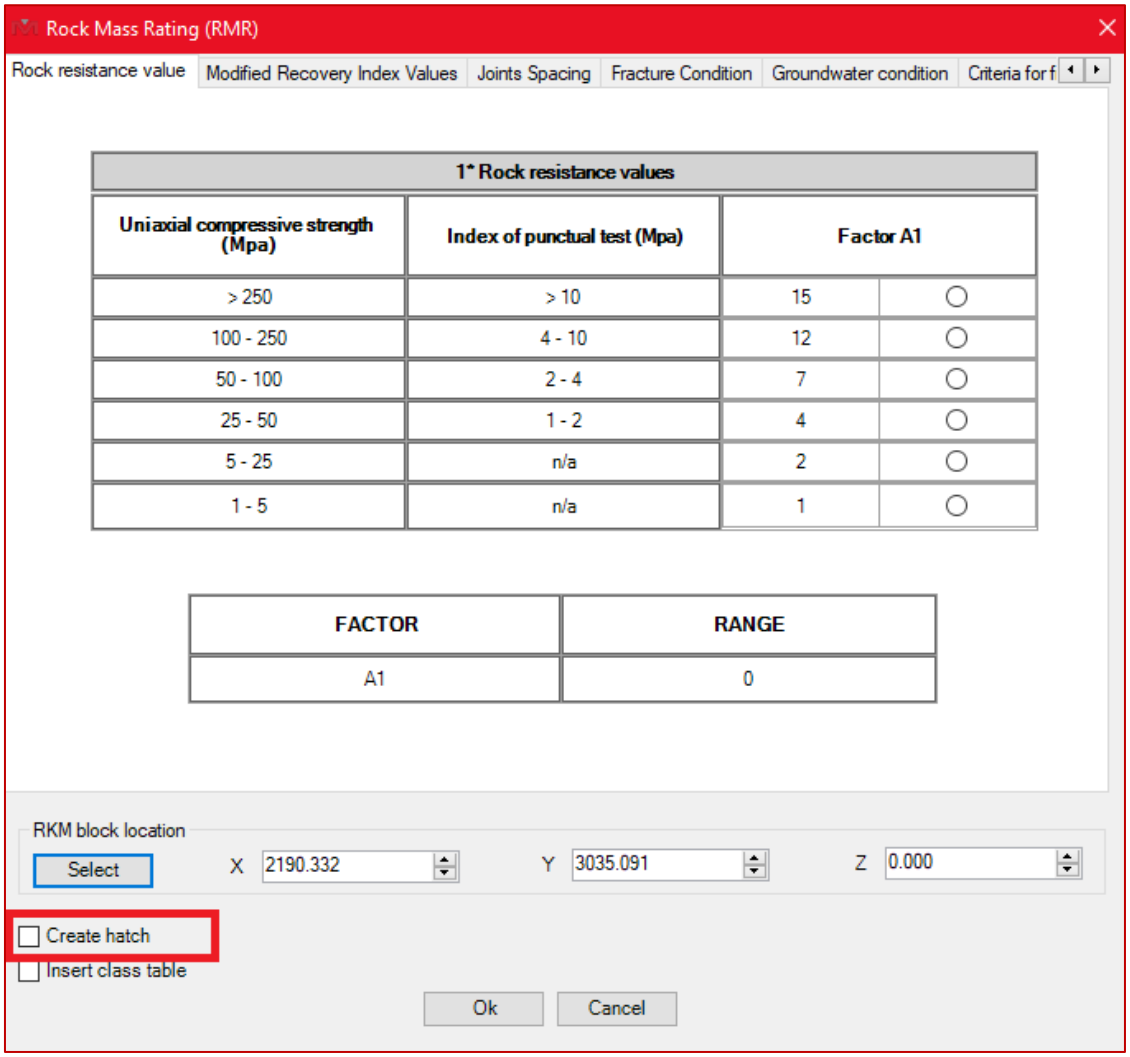
There is a new feature in the RKMRMR command which lets the user insert hatches having a wall contour and polylines to divide the sections with different hatches.

Steps to use:

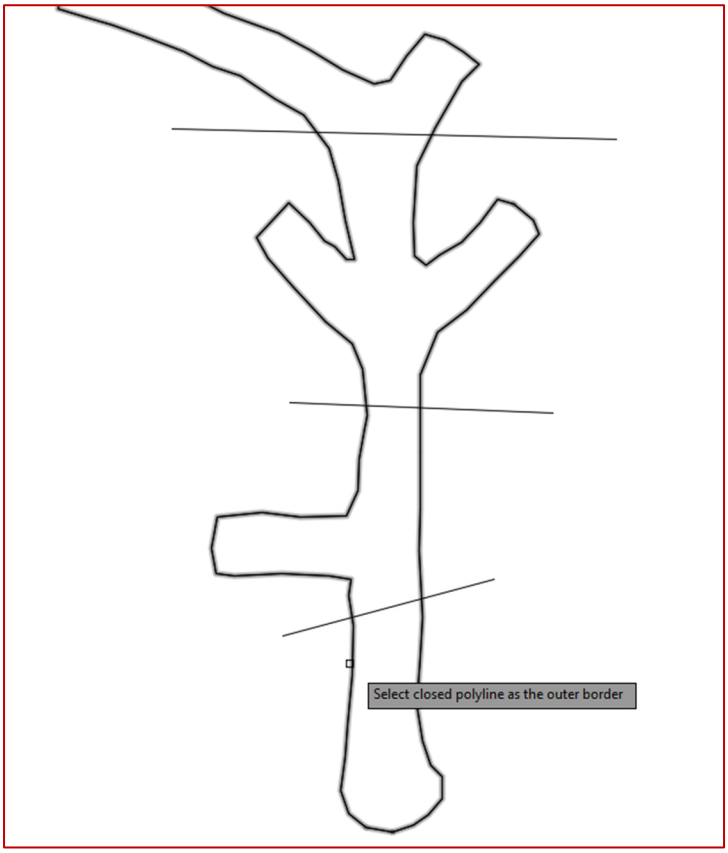
1. Having in the drawing wall contours previously inserted.
2. Separate sections with polylines.



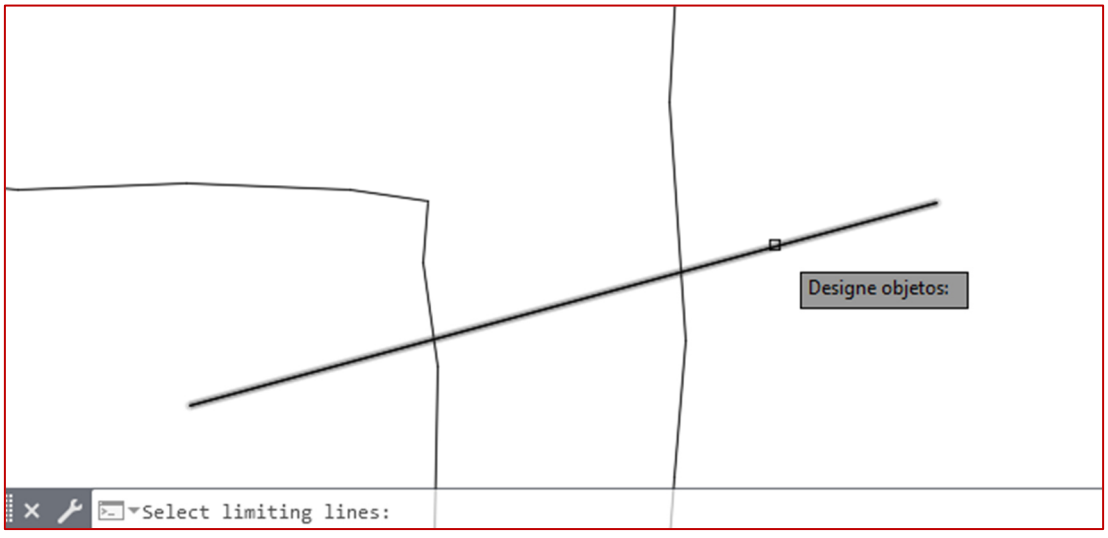
3. Then click on the “Calculate RMR” (RKMRMR) command.
4. The next window will follow showing the new option to add hatches



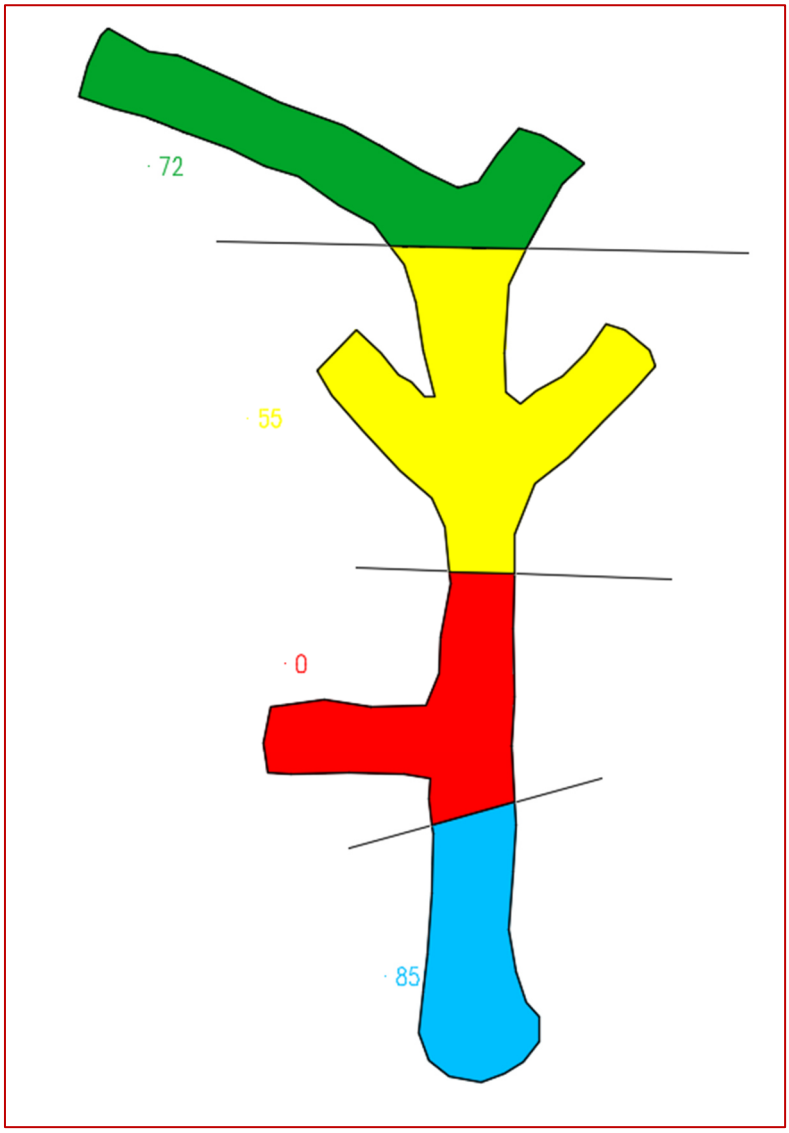
5. The user fills all the information in the tabs in the window to get the RMR calculation
6. The software will prompt the user to select a closed polyline as the outer border.



7. The user will be prompted to select all the limiting lines and then hit enter



8. Pick a point inside the area to hatch
9. The user can select more than one single area to color with the same hatch color. If not, hit enter to configure a different hatch color for a different section.

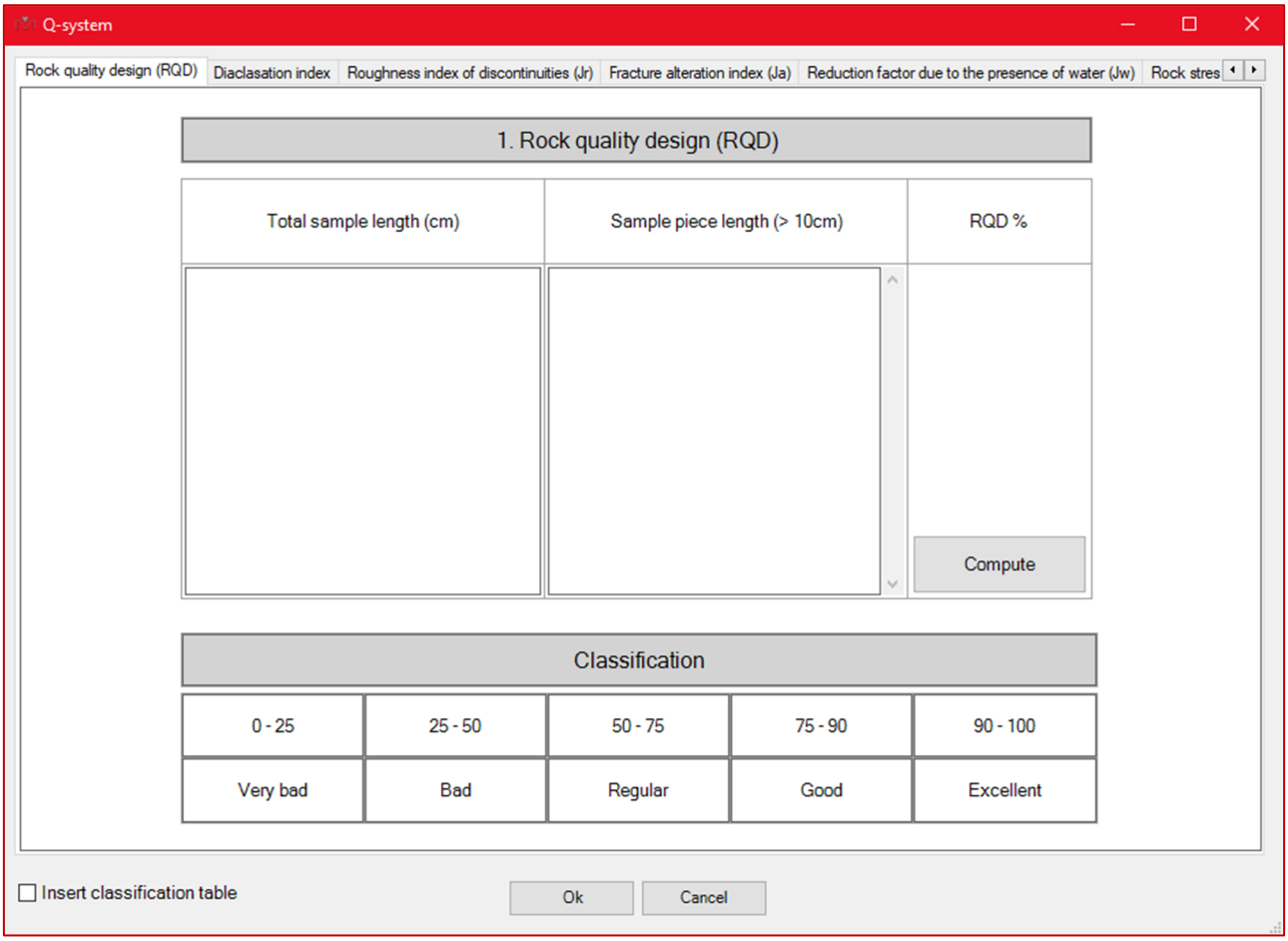


RKMQ – Calculate Q-system

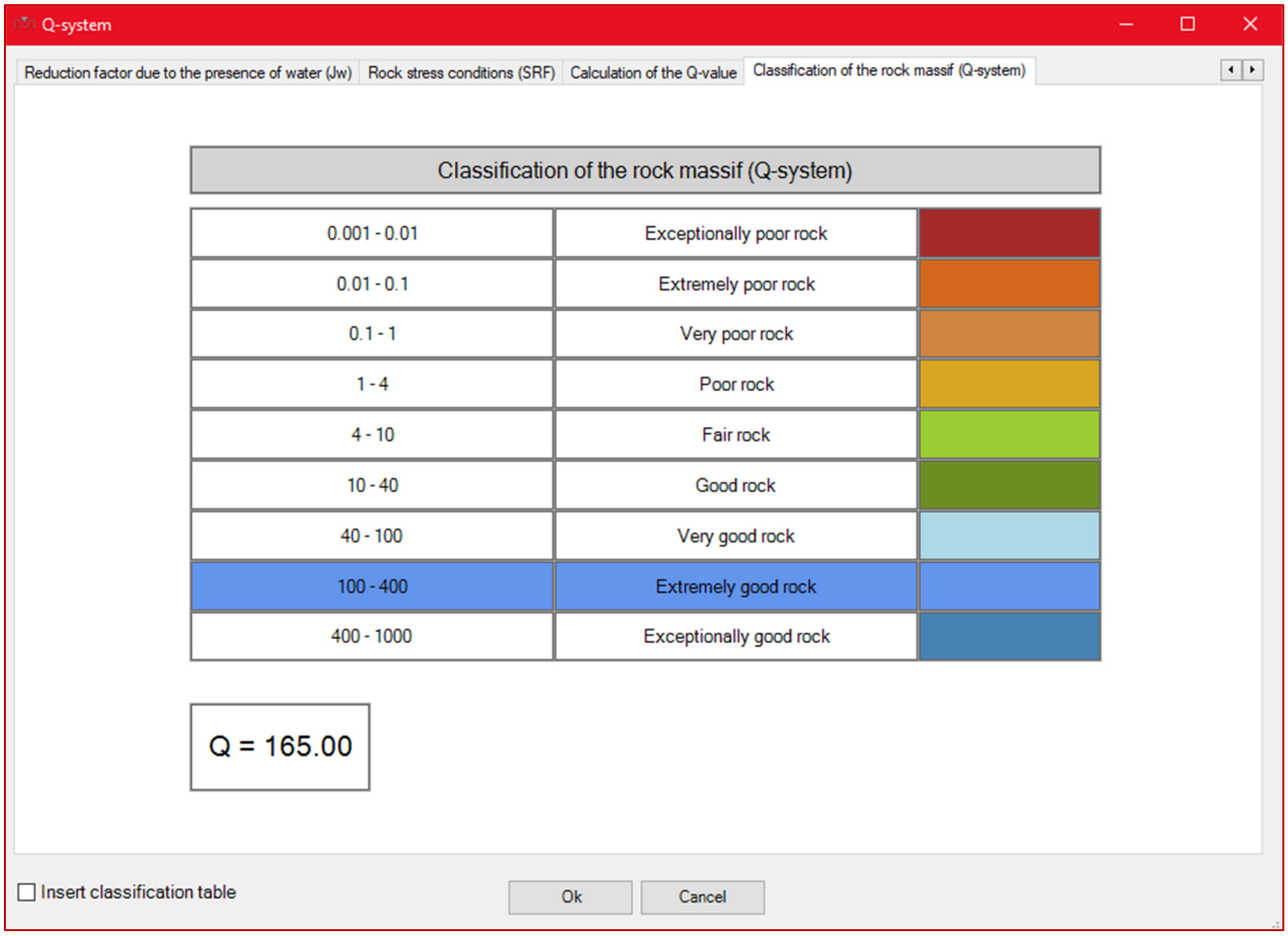
There is a new command called RKMQ similar to the RKMRMR command but using the Q-system method to classify the rock masses. This is a classification system for rock masses with respect to stability of underground openings. Based on estimation of six rock mass parameters.

Steps to use it:

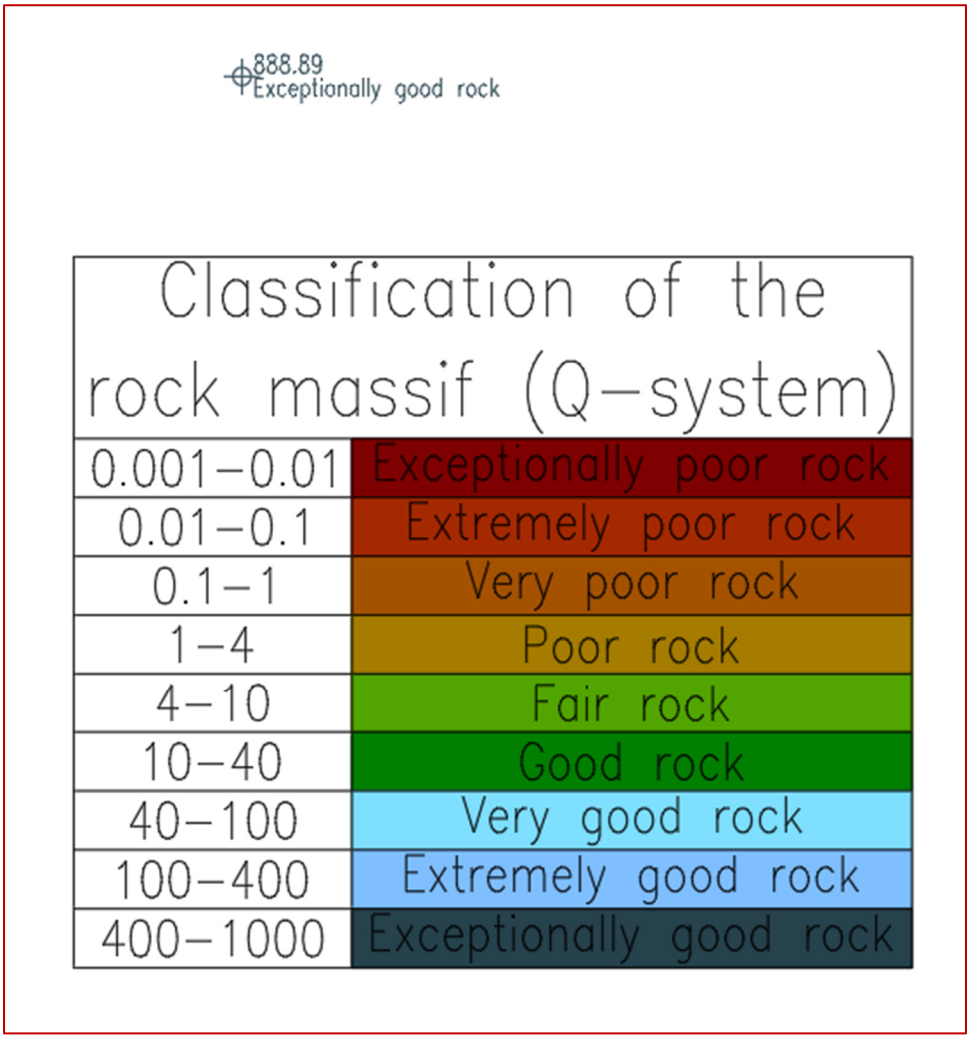
1. Click on the command or write the shortcut RKMQ in the command line
2. The next window will follow:



3. The window has 8 tabs that are: Rock Quality (RQD), Diaclassation index, Roughness index of discontinuities (Jr), Fracture alteration index (Ja), Reduction factor due to the presence of water (Jw), Rock Stress conditions (SRF), calculation of the Q-value, Classification of the Rock Massif (Q-system)
4. The user must set all these parameters based on their rock mass in all the tabs to be able to see their Q-value



5. This window also has an option (checkbox) to insert the classification table, a table with the legend of what the number of the Q-system signifies.
6. When the user clicks OK, the following table with the legend will be inserted in the drawing with its block, the number of Q-value and description.


888.89
Exceptionally good rock
Classification of the rock massif (Q-system)
0.001–0.01
Exceptionally poor rock
0.01–0.1
Extremely poor rock
0.1–1
Very poor rock
1–4
Poor rock
4–10
Fair rock
10–40
Good rock
40–100
Very good rock
100–400
Extremely good rock
400–1000
Exceptionally good rock

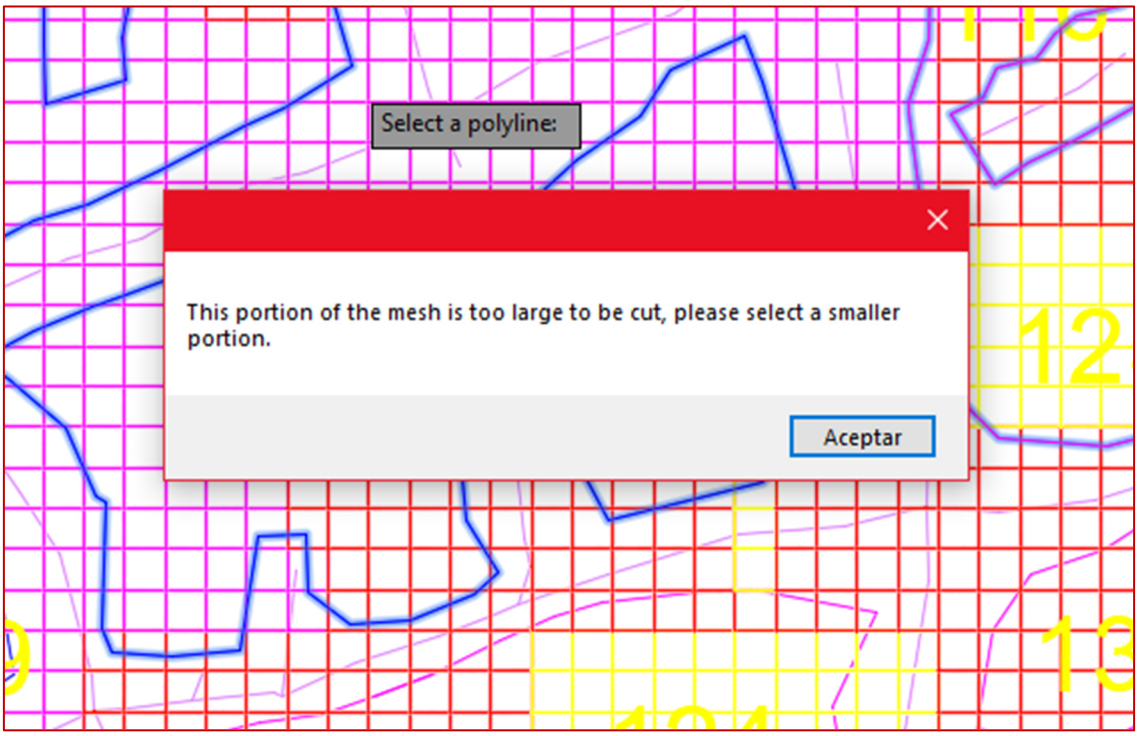
Improvements

Module: Solids

PROMCUTR – Reverse cookie cutting

For this new improvement in the command PROMCUTR the user can now select multiple contours before the user could only select one contour at a time. Also, the speed of the command computation has been improved.

If number of mesh multiplied with number of contours results in a number greater than 150 000 system will throw a message “This portion of the mesh is too large to be cut, please select a smaller portion.” as the computation might otherwise timeout.

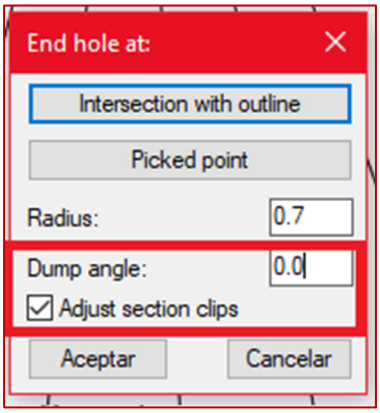


Module: Drill/Blast underground

DRIE – Edit hole

For this new improvement the edit command allows the user to specify a dump angle for each hole in the section.
The dump angle produces a 3D rotation of the drill hole by the specified angle over the z axis and centered at the pivot point. A dump angle of 0 represent a drill hole following the same orientation as the section.
A corresponding dump angle element has been added to the reports angle tags. Finally, a checkbox was added, that allow the adjustment of the section clips in order to not have the drill holes fall outside of the current view.

This is how the window looks like, giving the user the option to add the dump angle and also to adjust the clips to see the hole even when the hole is in an angle outside of the section



Note:
If the hole is already loaded with explosives and boosters those features will move with the hole.