User Manual

CIVILAB 2023

CBR TEST

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I- Loads-penetration curve

1- Test Data:

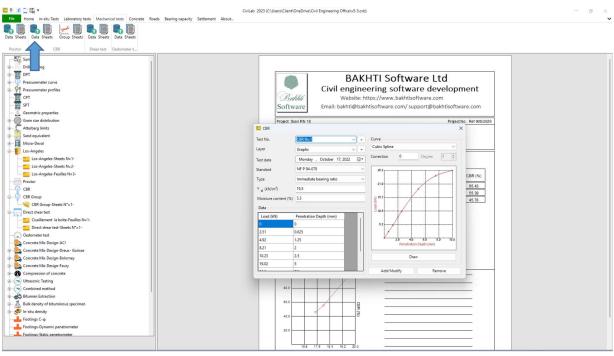
Click on the "Mechanical Tests" tab then click on the "Data" button in the "CBR" panel, then input:

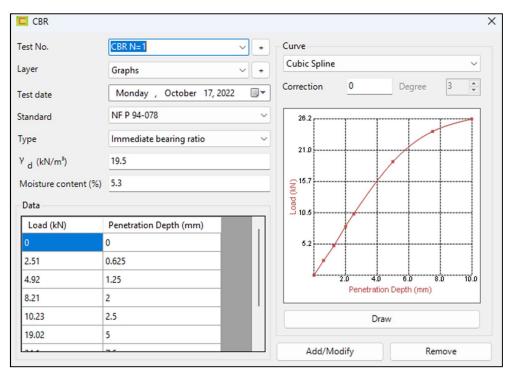
- The test name;
- The test date;
- Select the layer which should be used in the drawing process;
- Select the standard;
- Select the type of the test;
- The moisture content;
- The density;
- The values of Force-penetration or pressure penetration (depending on the standard used);
- Choose the type of curve (linear, cubic spline, cubic spline Akima, cubic spline Pchip, b-spline)
- The desired correction value

Click on the button of "Add/Modify";











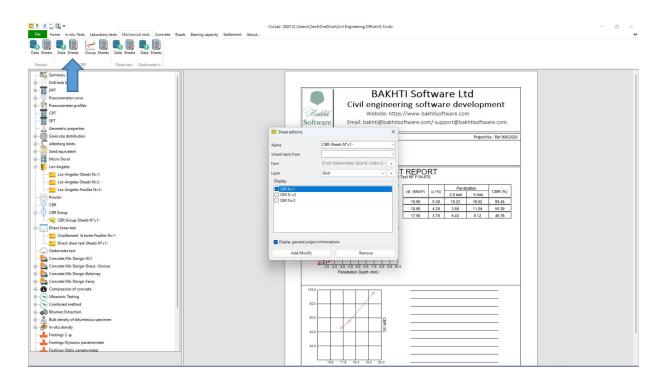


2- Add a sheet:

Click on the "Sheets" button in the "CBR" panel and input:

- The sheet name;
- Select the font;
- Select the layer used in the background drawing;
- Select the tests;
- To display general project information's check the corresponding box;

Then click on "Add/Modify" button

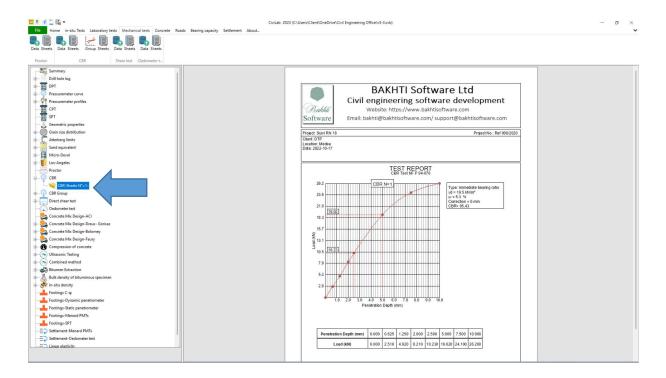


3- Display the report

To display the report, click on the sheet name in the tree view





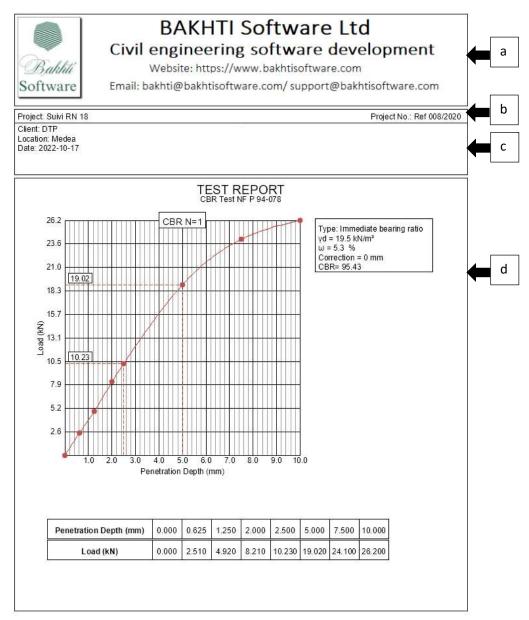


To export or print the report, click on "Home" tab, then click the appropriate button in the outputs panel (Print or Export button)





4- Test report:



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- **a. Sheet Header Presentation:** To import or modify the sheet header, go to the "Home" tab and select the "Header" button.
- **b. Project Name and Reference:** These details can be entered from the project's general information found in the File menu.





- c. Area for Displaying Test Information: Test information can be input within this area from the Test Information window (to show it click on the "+" button next to the name of the test on Data window) and project's general information window.
- **d. Area for Plotting Curves:** this area is designated to visualize curves and the test results.

II- CBR-Water content curve / CBR-density curve

1- Test Data:

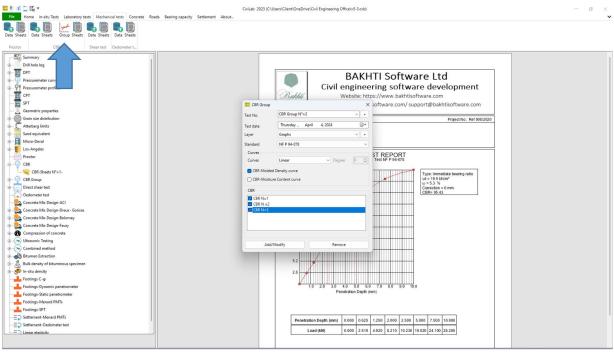
Click on the "Mechanical Tests" tab then click on the "Data" button in the "CBR" panel, then input:

- The test name;
- The test date;
- Select the layer which should be used in the drawing process;
- Select the standard;
- Choose the type of curve (linear, cubic spline, cubic spline Akima, cubic spline Pchip, b-spline)
- To display the CBR-Moisture content curve, check the corresponding box;
- To display the CBR-Density curve, check the corresponding box;
- Select CBR tests

Click on the button of "Add/Modify";







CBR Group						×
Test No.	CBR Group N°	=2			~	+
Test date	Thursday ,	April	4, 2024	4		_
Layer	Graphs				~	+
Standard	NF P 94-078					~
Curves						
Curves	Linear		~	Degree	3	A
CBR-Moisture CBR ✓ CBR N=1 ✓ CBR N = 2 ✓ CBR N=3	e Content curve					
Add/A	Andify.			Remove		
Add/N	nodity			Remove		



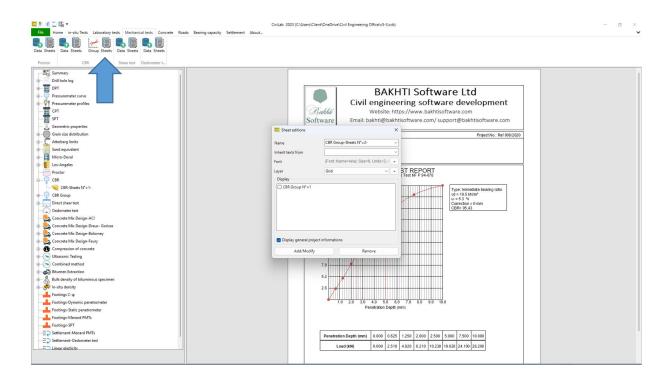


2- Add a sheet:

Click on the "Sheets" button in the "CBR" panel and input:

- The sheet name;
- Select the font;
- Select the layer used in the background drawing;
- Select the tests;
- To display general project information's check the corresponding box;

Then click on "Add/Modify" button

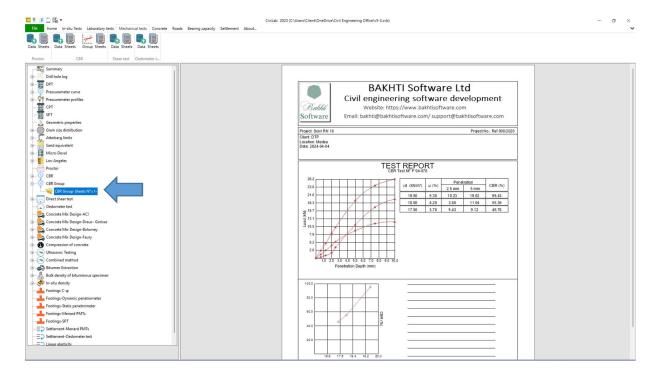


3- Display the report

To display the report, click on the sheet name in the tree view







To export or print the report, click on "Home" tab, then click the appropriate button in the outputs panel (Print or Export button)





4- Test report :



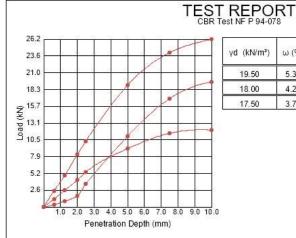
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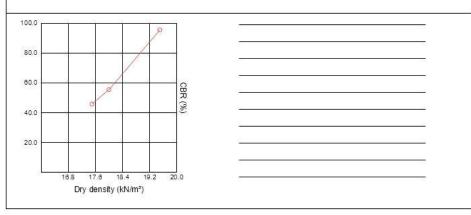
Project: Suivi RN 18 Client: DTP Location: Medea Date: 2024-04-04





γd (kN/m³)	ω (%)	Penetration		000 ///
		2.5 mm	5 mm	CBR (%)
19.50	5.30	10.23	19.02	95.43
18.00	4.20	3.60	11.04	55.39
17.50	3.70	5.43	9.12	45.76

Project No.: Ref 008/2020



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