

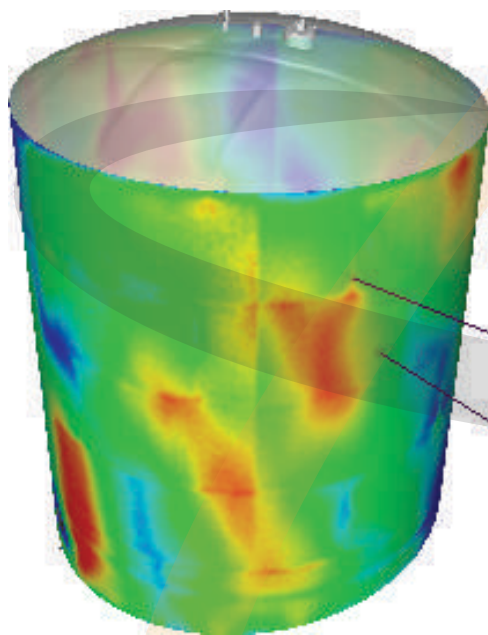
Tank Analysis



The professional team at AL WARQA SURVEYING ENGINEERING will acquire important data specific to your engineering needs to assist you with your design, provide you with the information, guidance and professional service to your project.

Tank Analysis

For general tank inspections, 3D scanners allow you to quickly capture high accuracy and high density information to evaluate the conditions of storage tanks. Thanks to 3DRe-shaper and its dedicated module, run a complete and guided analysis, using API 650/653 tolerances, or not. Process a 3D Inspection, check roundness, plumbness and verticality, compute settlements on the bottom of the tank, and much more!



3D Inspection

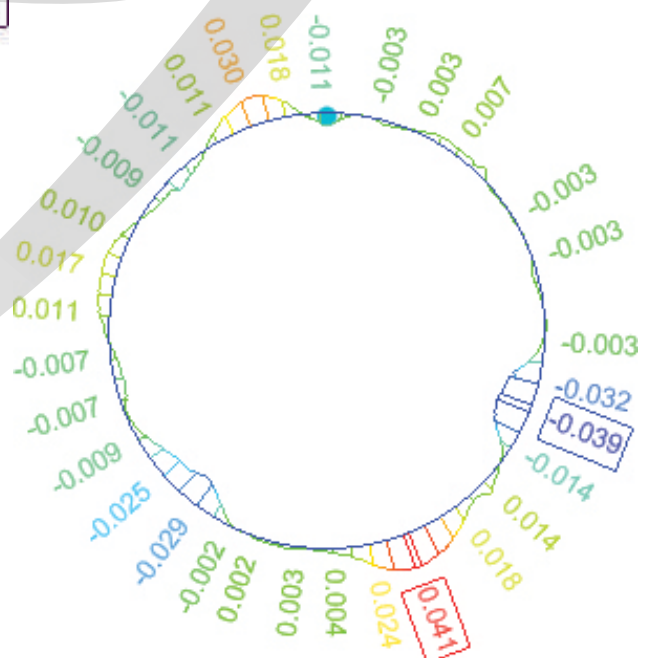
Automatically compute plumbness and the best cylinder of the tank. Compute and customize a 3D color map to inspect your tank, and create labels to know the exact deviation on a given point. Unroll the tank shell to display a 2D colormap.

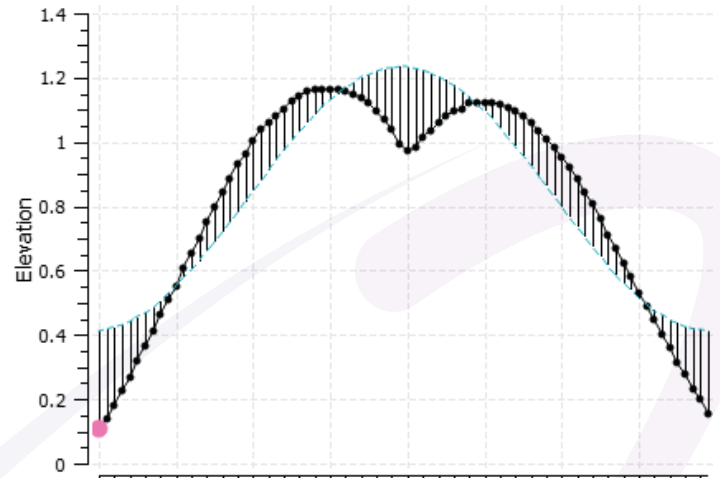
2	Dev
3D	0.033

1	Dev
3D	0.040

Roundness & Verticality

Compute horizontal and vertical profiles to check the roundness and the verticality of the tank shell. Display one or several profiles as a grid and magnify deviations in order to better detect deformations.



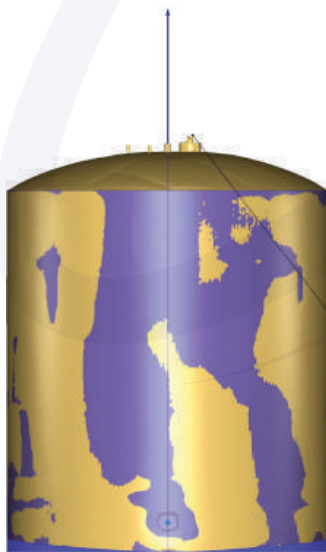


Settlement

Compute differential settlement (nonuniform settling of the tank) or localized settlement (detect low and high areas on the bottom of the tank) according to standard API 653.

Reporting

Export all the measurements in a complete and customizable report ready for delivery to your customer, or export CSV tables in order to evaluate the data in another software.



Best Cylinder Infos

	x	y	z
Axis	-0.0014	0.0036	1

Diameter: 18.6896 mm

Computation information

Number of points used for computation: 70332

Distance of the worst point used for computation: 0.1367 mm

Standard deviation distance: 0.0159 mm

Plumbness

Measured plumbness: 0.0804 mm

The max. allowable plumbness value is 127 mm according to API 653 .

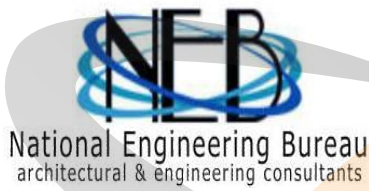
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