



## Calculating Volumes from Measured Values

### Volume Calculation from Measured Coordinates with Sokkia Total Stations, 3-DIM Observer and 3-DIM PT

#### On-site survey

The volume of a workpiece, a space, or a tank with numerous corners and edges is to be determined.

The corner points of the volume body are easily measured with the reflectorless Sokkia instruments.

The smart functionality of the 3-DIM Observer makes it even possible to determine edge locations without using targets. Reflectorless points measured with instruments of the NET series have accuracies greater than 1 mm.

Points can be automatically connected with one another by lines right in the 3-DIM Observer already during the measurement. This subsequently yields a graphical grid model in 3-DIM PT. Analyses are thereby greatly facilitated and simplified.

#### Analysis with 3-DIM PT

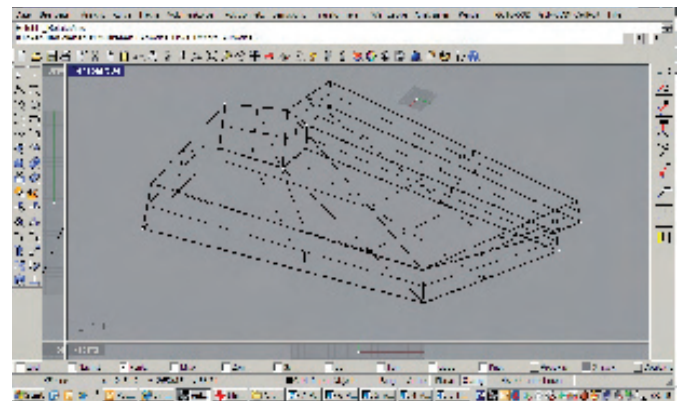
Your result is delivered to you in just a few steps:

The measured data are imported to 3-DIM PT. The grid model is manually converted to areas.

Once the volume body is finished, you immediately have your desired result.

#### Documentation

In addition to the graphical depiction, you also have the option of mapping your results in an Excel table. The measured values can be entered into an Excel worksheet simply by pushing a button.



Exact 3-D image of the volume body

Point	X	Y	Z	Dist	Angle
1	1000.000	1000.000	1000.000	1000.000	0.000
2	1000.000	1000.000	1000.000	1000.000	0.000
3	1000.000	1000.000	1000.000	1000.000	0.000
4	1000.000	1000.000	1000.000	1000.000	0.000
5	1000.000	1000.000	1000.000	1000.000	0.000
6	1000.000	1000.000	1000.000	1000.000	0.000
7	1000.000	1000.000	1000.000	1000.000	0.000
8	1000.000	1000.000	1000.000	1000.000	0.000
9	1000.000	1000.000	1000.000	1000.000	0.000
10	1000.000	1000.000	1000.000	1000.000	0.000

Automatic report with volume information and the measured points

The volume data can be imported from 3-DIM PT using copy & paste. In just a few minutes, the clearly structured documentation is available and can be used as a PDF document or a printout.