

GRAVA is a leader

and sets standards for graphic quantity take-off.

Easy, fast and always transparent: With GRAVA, your quantity take-off is done in the blink of an eye. The whole process actually works just like it does on a paper plan. That means no re-learning curve and no effort on your part.

You work with trusted tools, such as colored markers, a multi-scale ruler and quantity take-off sheets but in modern form. You determine the quantities graphically on a digitalized paper plan or a two-dimensional CAD drawing. The procedure is also the same as the conventional method, but it offers all the advantages of an effective, computer-aided solution. In only five steps, you can quickly create a quantity survey which can still be checked, manually supplemented or reworked afterwards at any time.

5 steps for a graphic quantity survey

Step 1: Import the plan

First import the plan file for the quantities to be determined graphically. This can be an image or a PDF of a scanned plan, but PDF vector data, such as DXF or DWG drawings from any number of CAD systems or from SketchUp can also be used.

Step 2: Scale the plan

In GRAVA, you will find a scaling feature to ensure that your plan data has the correct scale. Use it to pick up a known length from the image or the vector file and enter the true length. Your quantity survey now already has the correct scale.

Step 3: Survey the quantities

GRAVA provides you with various digital markers so that you can record the required quantities. Use them in the customary manner to mark the lengths, surface areas and item quantities on your plan.

Step 4: Transfer the quantities

GRAVA automatically recognizes which marker you used for surveying the quantities and offers you all of the lengths, surfaces, circumferences and item quantities in a dialogue box so that you can transfer them to the line items of your bill of quantities. Volume calculation is easy too, thanks to the integrated REB formula assistant. Using either manual or automatic selection, you can specify which data is ultimately transferred.

Step 5: Print the quantities

You can print out your quantity survey plans on paper directly or archive them in the PDF format. This also applies for the quantity typicals. Easily create the bill of quantities with item quantities at the press of a button. Together, the graphic and alphanumeric documentation provides a transparent and easily comprehensible quantity survey.

The beginning is thought to be more than half of the whole.
(Aristotle)



When something changes ...



When something changes

You know what happens in real life: As soon as the quantities have been determined, the plans are changed again. If the changes are extensive, you can simply toss a paper quantity survey. With the GRAVA graphic quantity survey, however, you can simply replace the plan version used previously as a basis with the current version. This lets you continue to use your quantity take-off and adapt it to the changes in the plan without beginning again from scratch.

GRAVA is easy

- _ Can be operated without CAD knowledge
- _ Works exactly the same as determining quantities on a paper plan
- _ Easy manual additions to the quantity take-off are possible
- _ The clear user interface is great for beginners

GRAVA is versatile

- _ Import plans in the formats: JPG, BMP, PDF (pixel and vector data), DXF, DWG, S12
- _ Export plans in the formats BMP, PDF
- _ Export quantities in the formats PDF, Excel, RTF, GAEB, DA11
- _ Works with every AWA solution via the GAEB interface

Customer Quote

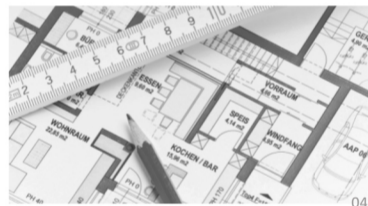
GRAVA supports the exact way I've always worked for quantity take-offs. Getting started was amazingly easy even though I don't work with drawing programs otherwise. In addition to easy operation, the big advantages for me are the perfect clarity and transparency plus the documentation. I can finally get rid of those unwieldy A0 paper plans. Everything can be done on 2D plans, which saves money and is environmentally friendly. Fantastic!

Helmut Loebe
Baubetreuungsgesellschaft mbH, 01796 Pirna

... everything under control

Everything under control

Confidence is good, control is better: To help you keep an eye on everything, GRAVA divides surveyed surfaces into clearly visible partial surfaces. This makes even complex calculations transparent and comprehensible. To provide even better orientation, you can highlight the quantity typical for a BoQ item in color on the quantity survey plan with a click, which enables you to see whether all quantities have been recorded. The ability to index all elements on the quantity survey plan and in the quantities list together with the option of comparing versions rounds out the comprehensive means of control that are provided.



GRAVA is powerful

- _ Scale plan templates and define them to scale
- _ Pre-defined content for easy, fast operation
- _ Mark surfaces, lengths and item quantities on the digital blueprints
- _ REB formula assistant for determining volumes
- _ Subsequent modification and editing of surfaces and elements using object handles
- _ Transfer changed quantities to the quantity take-off
- _ Multilayer for easy documentation and versioning

Projekt		Projekt - AWA Demoprojekt: Neubau Berufshochschule		SOFTECH GmbH Friedrichstraße 20 01463 Neustadt/Weinstraße	
MENGENBERECHNUNG Estricharbeiten					
1	Estricharbeiten				
1.0001	Opersichtschicht PE-Folie			144,450	m ²
Teilmenge zur Position:					
Nummer	Lukschalt	0201.01.01	0201.01.02	0201.01.03	Teilmenge
2.01.01.01	Eingang	302	3130	302	7,800
2.01.01.02	WC	302	3130	302	1,870
2.01.01.03	Wohnküche	302	3130	302	12,790
2.01.01.04	Küche	302	3130	302	18,270
2.01.01.05	Wohnraum	302	3130	302	28,850
2.01.01.06	Essen	302	3130	302	32,840
2.01.01.07	Essen II	302	3130	302	17,400
2.01.01.08	Wintergarten	302	3130	302	17,890
1.0002	Trittschalldämmung PE-Hartschaum EPS LD-CP 40-3mm 30MN/m ³ 0,035W/mK			144,450	m ²
Teilmenge zur Position:					
Nummer	Lukschalt	0201.01.01	0201.01.02	0201.01.03	Teilmenge
2.01.01.01	Eingang	302	3130	302	7,800
2.01.01.02	WC	302	3130	302	1,870
2.01.01.03	Wohnküche	302	3130	302	12,790
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2.01.01.06	Essen	302	3130	302	32,840
2.01.01.07	Essen II	302	3130	302	17,400
2.01.01.08	Wintergarten	302	3130	302	17,890
1.0003	Zementestrich Estrich auf Tremschicht F4 D 60mm			26,800	m ²
Teilmenge zur Position:					
Nummer	Lukschalt	0201.01.01	0201.01.02	0201.01.03	Teilmenge
2.01.01.01	Eingang	302	3130	302	7,800
2.01.01.02	WC	302	3130	302	1,870
2.01.01.03	Wohnküche	302	3130	302	12,790
2.01.01.04	Küche	302	3130	302	18,270
1.0004	Zementestrich Estrich auf Dämmerschicht F4 D 60mm			117,650	m ²
Teilmenge zur Position:					
Nummer	Lukschalt	0201.01.01	0201.01.02	0201.01.03	Teilmenge
2.01.01.01	Eingang	302	3130	302	7,800
2.01.01.02	WC	302	3130	302	1,870
2.01.01.03	Wohnküche	302	3130	302	12,790
2.01.01.04	Küche	302	3130	302	18,270

In summary

GRAVA combines the proven approach for working up quantity surveys with the advantages of modern technical possibilities. The result is an efficient solution that is easy to operate and makes the quantity take-off process clear and comprehensible. GRAVA creates more transparency for everyone involved in the project as well as more convenience in the daily workflow.

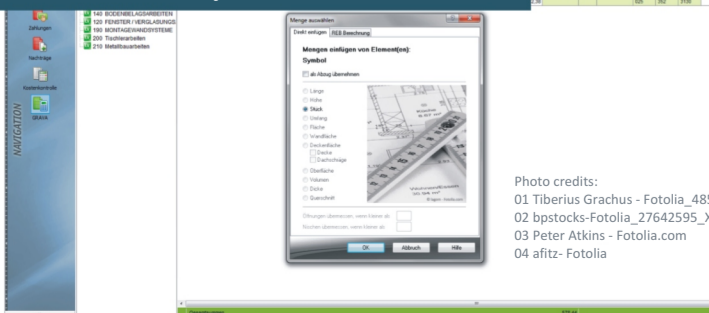


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Would you like to find out more about GRAVA?



SOFTECH GmbH
Moltkestr. 14
67433 Neustadt/Weinstraße

Phone +49 6321 939-0
Fax +49 6321 939-199
E-Mail info@softtech.de
www.softtech.de