



## **Sales Documents**

**Version 1.2**

# POINTCAB SUITE

Scope of the Suite Edition:

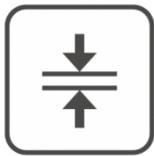


Layout

With the *PointCab Layout tool* easily create dimensionally accurate and correctly located floor plans, maps and orthophotos directly from your point cloud. Available to exported in DWG, DXF and DAE formats.

**Tutorials:**

<http://www.pointcab-software.com/en/tutorials/pointcab-tutorials/layout-tutorials/>



Section

With the *PointCab Section tool* create dimensionally accurate and correctly located sections, elevations, wall plans and terrain models directly from your point cloud. Available to exported in DWG, DXF and DAE formats.

**Tutorials:**

<http://www.pointcab-software.com/en/tutorials/pointcab-tutorials/section-tutorials/>



Merger

With the *PointCab Merger tool* summarize the results of the Layout and Section tools together in a scalable image. The result is a simple documentation of your plans and sections including a scale.

**Tutorials:**

<http://www.pointcab-software.com/en/tutorials/pointcab-tutorials/merger-tutorials/>



WebExport

With the *PointCab WebExport tool* you can generate an interactive documentation in HTML or PDF format. The resulting files are 1000 times smaller than the point cloud and it even runs on an iPad or tablet.

**Tutorials:**

<http://www.pointcab-software.com/en/tutorials/pointcab-tutorials/webexport-tutorials/>



Sketch

With the *PointCab Sketch tool*, measure lengths, areas and angles as well as add any additional comments. Available to exported in DWG, DXF and DAE formats.

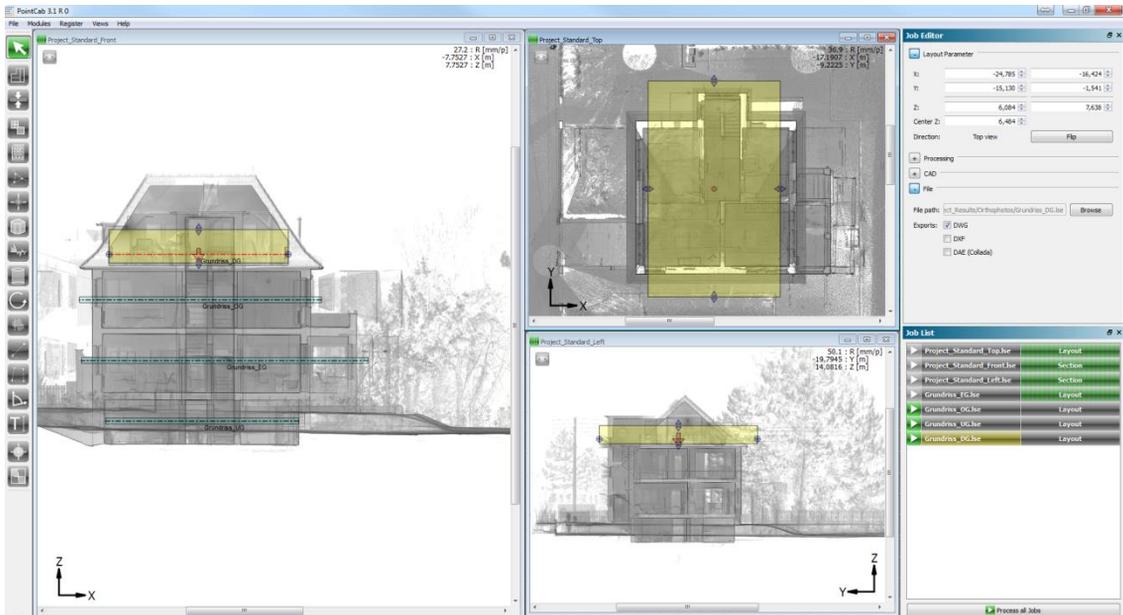
**Tutorials:**

<http://www.pointcab-software.com/en/tutorials/pointcab-tutorials/sketch-tutorials/>

# POINTCAB TOOL LAYOUT



The workflow of the Layout tool:



Easily create layouts from your point cloud in three easy steps with the **PointCab Layout tool**:

1. **Enable Layout tool**
2. **Define layout in the front view and the top view**
3. **Start the calculation**

An ideal solution for quickly creating floor and layout plans.

The results are as diverse as your project:

All plans inherit the exact position and coordinate information in their **DWG, DXF and DAE exports** and will be perfectly aligned in your CAD system. Don't waste time on half finished products that require further work, but create results ready to be used. PointCab also supplies useful standardized settings so you can use your results in any 2D-CAD system. Simply define the point of origin in the CAD Settings and choose between **Planar** and **Planar & Origin**. This lets you easily add more floor plans side by side. In particular, these options are extremely useful to architects and surveyors.



Illustration: different Layouts in PointCab

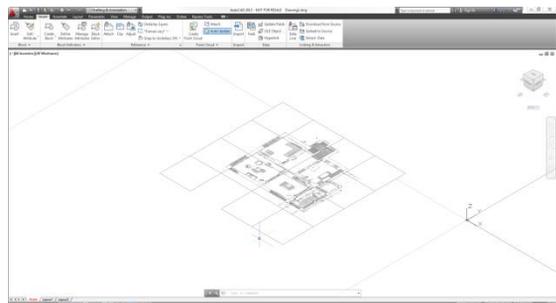
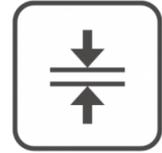
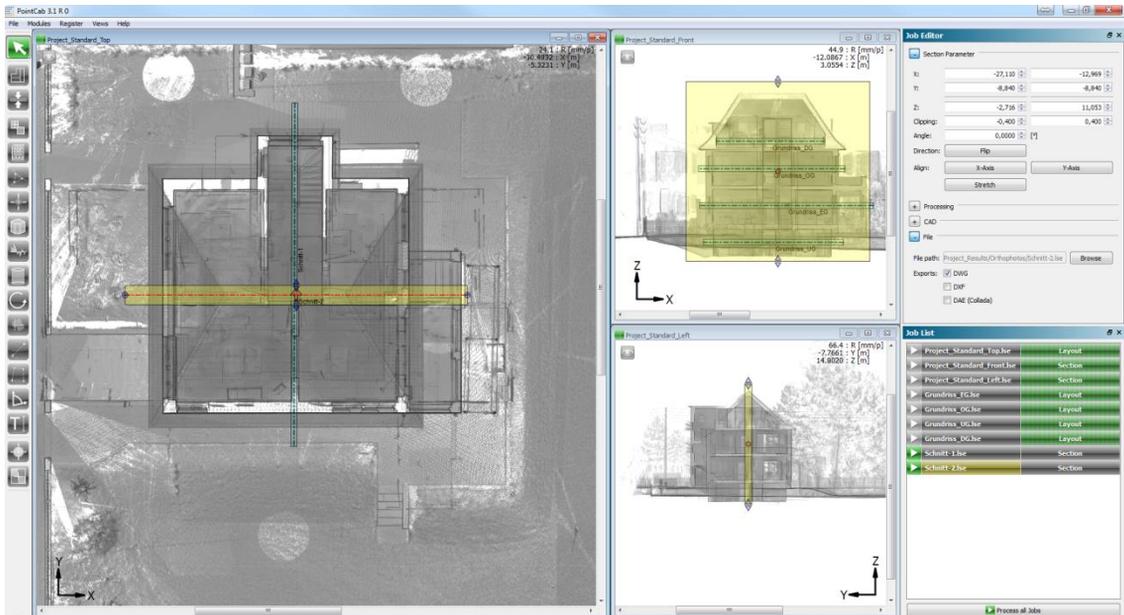


Illustration: Layout in AutoCAD – DWG Import

# POINTCAB TOOL SECTION



The workflow of the Section tool:



With the **PointCab Section tool** you can generate in three easy steps sections from your point cloud - free in space or orientated parallel to the axis:

1. **Enable the Section tool**
2. **Define a section in the top view and the front view**
3. **Start the calculation**

This provides the ideal function to create façade plans, cross sections or various other vertical sections from your project.

The results are as diverse as your project:

All sections inherit the exact position and coordinate information in **their DWG, DXF and DAE exports** and will be perfectly aligned in your CAD system. Don't waste time on half finished products that require further work, but create results ready to be used. PointCab also supplies useful standardized settings so you can use your results in any 2D-CAD system. Simply define the point of origin in the CAD Settings and choose between **Planar** and **Planar & Origin**. This lets you easily add more floor plans side by side. In particular, these options are extremely useful to architects and surveyors.



Illustration: Sections in PointCab

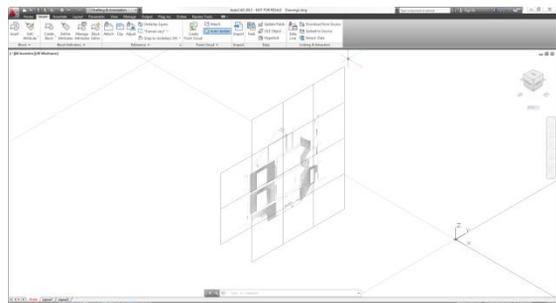


Illustration: Section in AutoCAD – DWG Import

# POINTCAB TOOL MERGER



The workflow of the Merger tool:



With the **PointCab Merger tool** you can create plans in three easy steps:

1. **Enable the Merger tool**
2. **Make your selection**
3. **Compile a plan**

Use PointCab Merger to export and document your results. PointCab Merger creates plans that are scaled and have a coordinate file attached. These results can be easily read in all applications.

The results are as diverse as your project:

The results of the Merger tool always include a coordinate file with the merged image - each image has a unique positioning. The results can be easily processed further in your CAD application or simply printed. This creates excellent site plans, where only the relevant areas are shown.

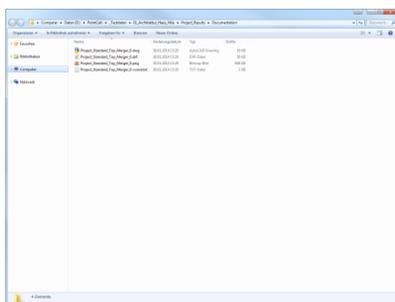


Illustration: Merger results in the PointCab folder

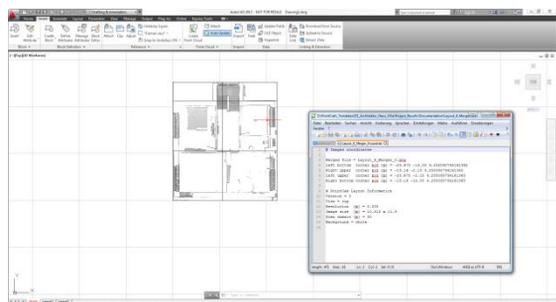
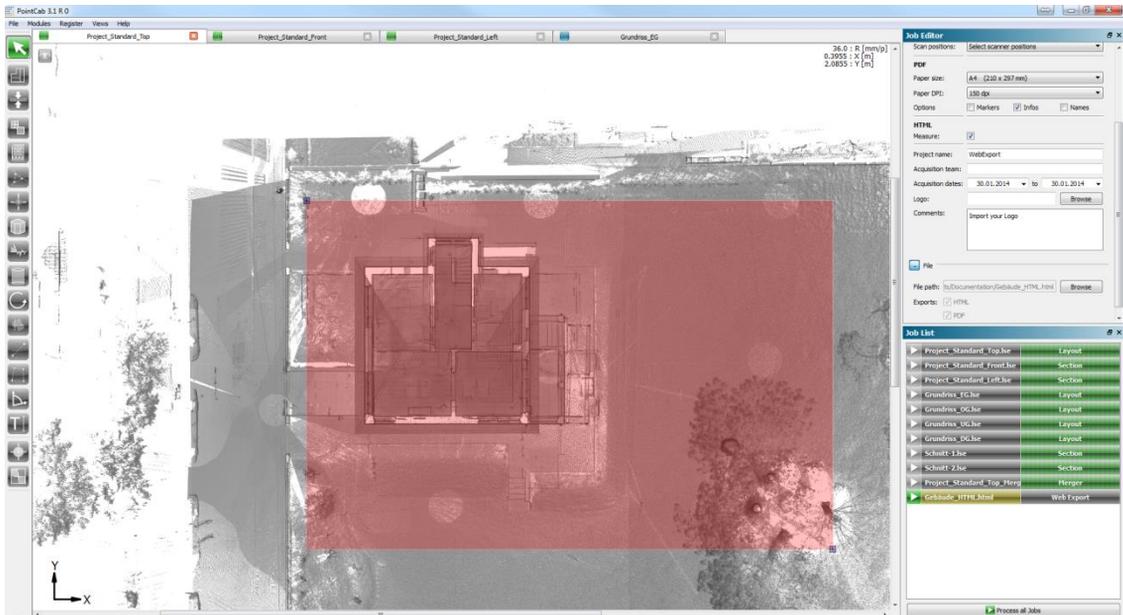


Illustration: Merger Image imported into AutoCAD

# POINTCAB WERKZEUG WEBEXPORT



The workflow of the WebExport tool:



Create a basic presentation via interactive project documentation. Use the **PointCab WebExport tool** to create documentation in three easy steps:

1. **Enable WebExport tool**
2. **Choose your documentation area**
3. **Create documentation**

You can document site plans, floor plans, facade plans in which you can measure distances and areas. Integrated panoramic views act as a reference to your plans and provide excellent presentation material.

The results are as diverse as your project:

Use WebExport to create either **HTML or PDF files** for easily sharing your project details. You need only to include the HTML option in your export and it is immediately generated and available for use. Of course, you can personalize the results completely; use your own logos and names to add a professional element to your business. No matter in what form you want to make the results available to your customers - PointCab WebExport supports all the common formats for offline USB stick, DVD, e-mail or online.

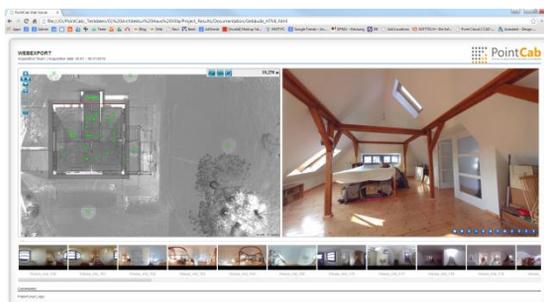


Illustration: HTML project documentation

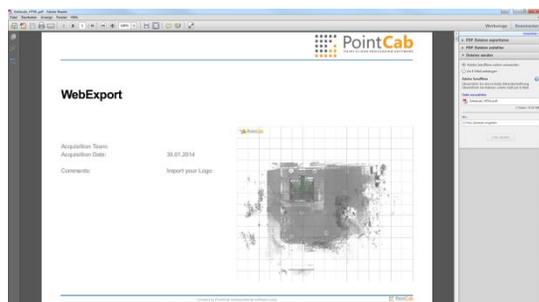


Illustration: PDF project documentation

# POINTCAB TOOL SKETCH



The workflow of the Sketch tool:



With the **PointCab Sketch tool** you can easily find measurements from your point cloud and visualize them:

1. **Activate Sketch tools**
2. **Create distance, area, angle, and text (annotations)**
3. **Export annotations**

With the PointCab Sketch tool you don't need to switch to your CAD software to quickly and easily identify and document dimensions.

The results are as diverse as your project:

The created distances, angles or area measurements can be saved as **DWG, DXF or DAE file** and used directly in your CAD application. Labels or comments can then be added to complete your project.



Illustration: Dimensions and texts in PointCab



Illustration: imported measurements and comments in AutoCAD

# POINTCAB 3D PRO

Scope of the 3D Pro Edition:



Mesh

With the *PointCab Mesh tool* you can extract surfaces, objects and Digital Terrain Models (DTM) from the point cloud and use it in your CAD system. The DTM is a base document for all architects and surveyors.

**Tutorials:**

<http://www.pointcab-software.com/en/tutorials/pointcab-tutorials/mesh-tutorials/>



3D Points

With the *PointCab 3D-Points tool* you can easily create accurate 3D coordinates or elevation spots from your point cloud and import these coordinates directly into your CAD systems. Access vital 3D information from your point cloud in just a few seconds.

**Tutorials:**

<http://www.pointcab-software.com/en/tutorials/pointcab-tutorials/3d-points-tutorials/>

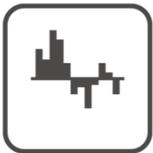


Volume

With the *PointCab Volume tool* you can compute volumes in compliant standard REB 22013 for volume calculations.

**Tutorials:**

<http://www.pointcab-software.com/en/tutorials/pointcab-tutorials/volume-tutorials/>

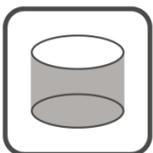


Delta

With the *PointCab Delta tool* you can calculate deviations from a reference plane. Document façade warping or check the evenness of floors.

**Tutorials:**

<http://www.pointcab-software.com/en/tutorials/pointcab-tutorials/delta-tutorials/>



Unfold

The *PointCab Unfold tool* allows you to project and evaluate cylindrical objects on a plane. With this tool you can analyze the surface of towers or true circularity of rooms.

**Tutorials:**

<http://www.pointcab-software.com/en/tutorials/pointcab-tutorials/unfold-tutorials/>



Vectorizer

With the *PointCab Vectorizer tool* you create your plan as DWG, DXF or DAE. Every architect loves this feature. With a few clicks, create a layout line plan, which can be processed in any CAD system. Get a direct line between the point cloud and your result.

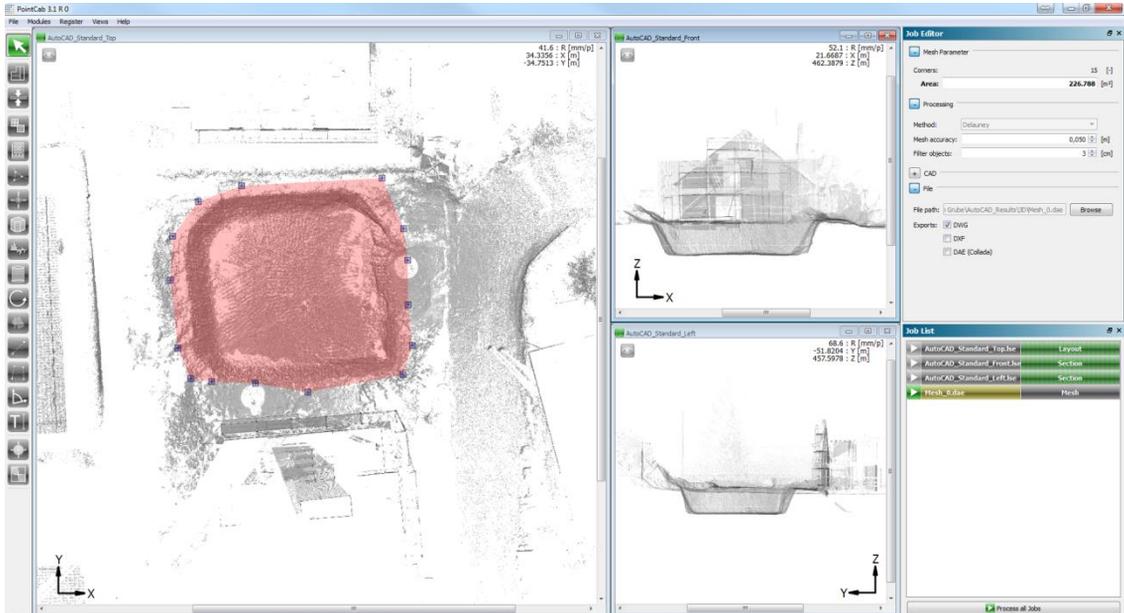
**Tutorials:**

<http://www.pointcab-software.com/en/tutorials/pointcab-tutorials/vectorizer-tutorials/>

# POINTCAB TOOL MESH



The workflow of the Mesh tool:



With the **PointCab Mesh tool** you can generate in three easy steps 3D models from your point cloud:

1. **Enable Mesh tool**
2. **Select region over a polygonal surface**
3. **Calculate the mesh**

Create a Digital Terrain Model from your site survey – from creating a mesh of an excavation for a construction project, or generating a mesh to represent a façade. No matter what you require, in three steps you'll get a mesh out of it.

The results are as diverse as your project:

View your calculated meshes in the PointCab **3D View** and adjust the required level of accordingly. All meshes contain proper **coordinate data correctly exported in DWG, DXF or DAE** format to be placed directly into your CAD system.

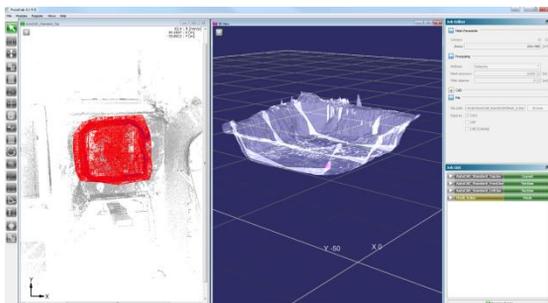


Illustration: Mesh in the orthophoto and in the 3D View

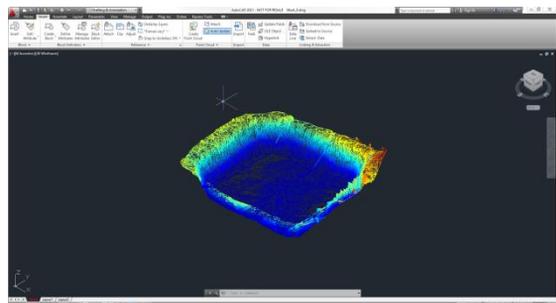
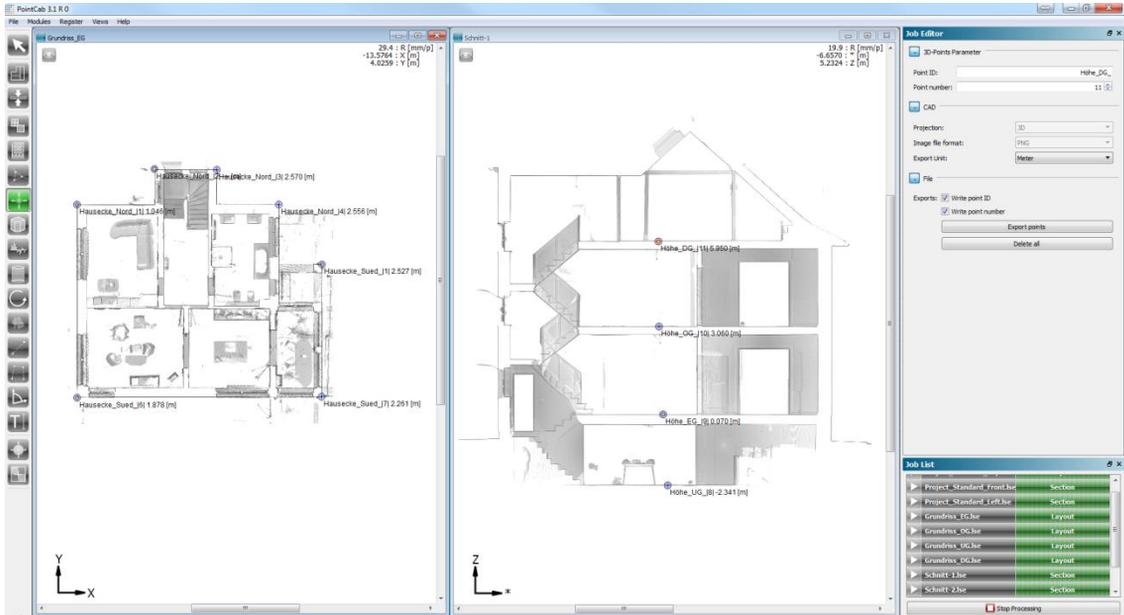


Illustration: Mesh in AutoCAD

# POINTCAB TOOL 3D POINTS



The workflow of the 3D Points tool:



Create **3D-Points** easily in your PointCab floor plan or section results and get the point coordinates faithfully in your CAD system:

1. Enable 3D-Points tool
2. Create 3D points
3. Export 3D points

This provides you with an ideal function to export specific coordinates or height information of the individual levels.

The results are as diverse as your project:

With **PointCab 3D-Points** you can add further information to the selected points, such as identification codes for each specific point. Thus you cannot only use the points in your CAD system as a modeling base or support services, but also as documentation. The coordinates can be exported in **XYZ** and **DXF** format.

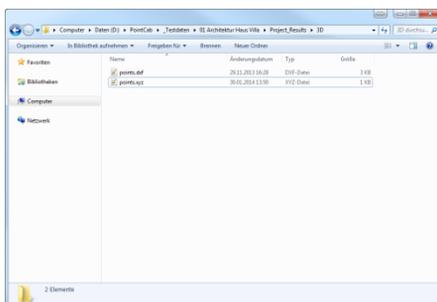


Illustration: export formats of the 3D Points

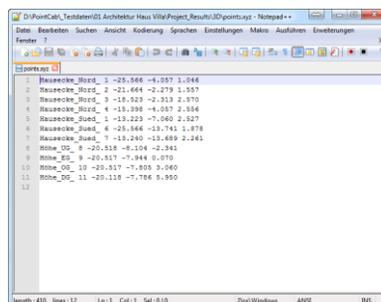
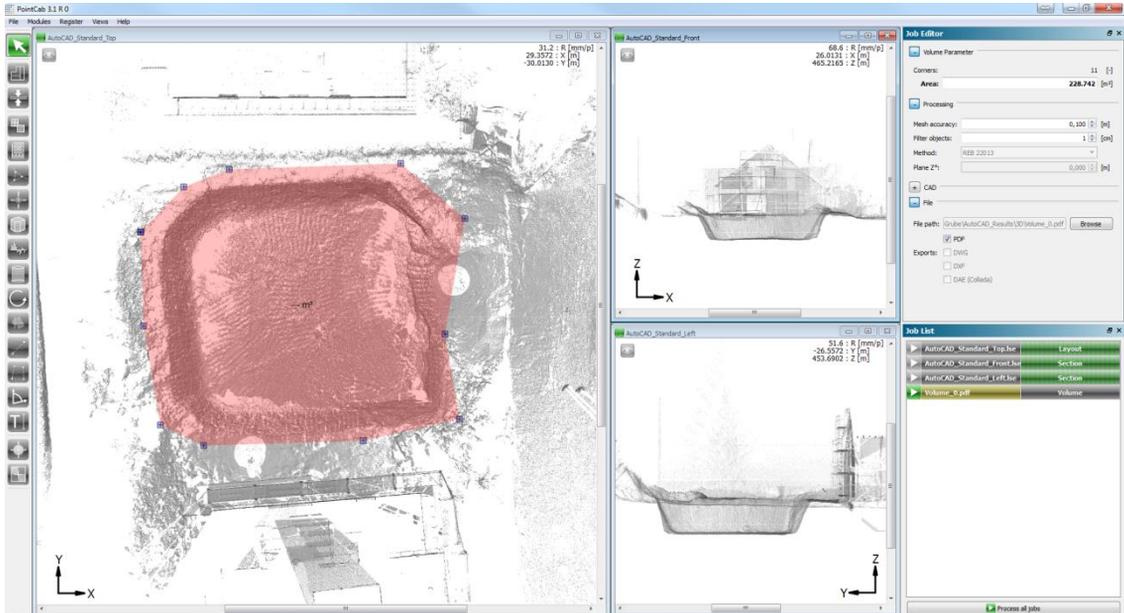


Illustration: XYZ coordiante format

# POINTCAB TOOL VOLUME



The workflow of the Volume tool:



With the **PointCab Volume tool** you can calculate a volume in three easy steps from your point cloud and receive a PDF protocol as documentation:

1. **Activate Volume tool**
2. **Define an area over polygon surface**
3. **Calculate the volume**

This provides you with an ideal feature for example for the volume of earthworks, embankments or to calculate levies & pits.

The results are as diverse as your project:

The volume is calculated in the **EU required standard**. The result of the volume calculation is documented in a PDF protocol with **REB 22013** standard and ensures that any documentation is done under the required legal standard. Of course, the volume is also available directly in PointCab.

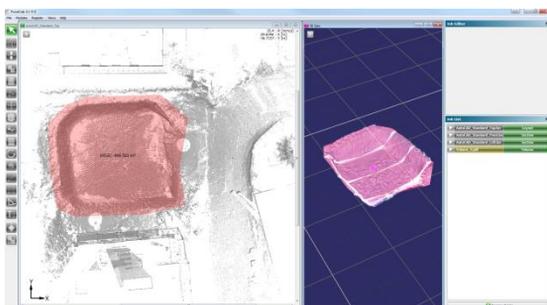


Illustration: calculated volume will be shown

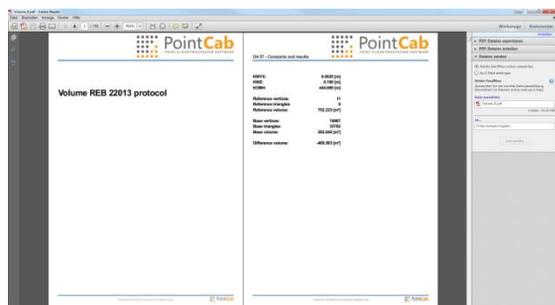
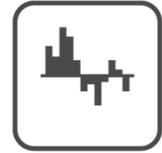
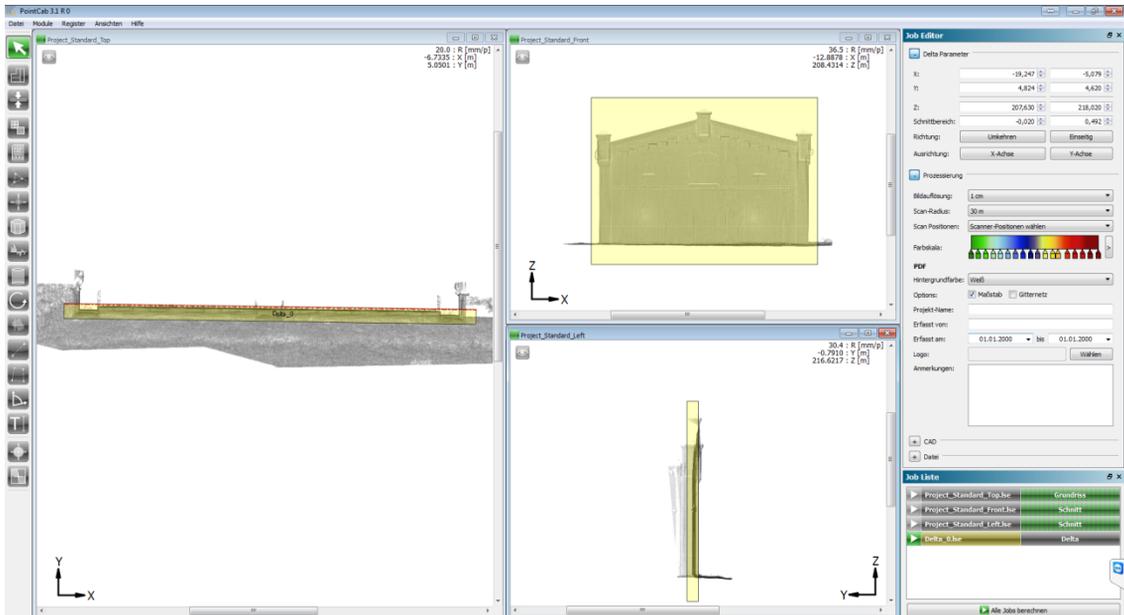


Illustration: PDF protocol of the volume calculation

# POINTCAB TOOL DELTA



The workflow of the Delta tool:



The **PointCab Delta tool** allows you to document deviations from a plane in your point cloud in three easy steps:

1. **Enable Delta tool**
2. **Define the area - in horizontal or vertical direction**
3. **Calculate deviation**

This provides you with an ideal function to determine uneven floors, facade deformations or comparative analysis between two different measurements.

The results are as diverse as your project:

The Delta Tool displays the deviations of a reference surface graphically to analyze structural irregularities on surfaces. All deltas contain proper **coordinate data correctly exported in DWG, DXF or DAE format** to be placed directly into your CAD system. In addition, a PDF report including statistical details of the deviation is created. The combination of these two results gives you a truly powerful analysis tool.

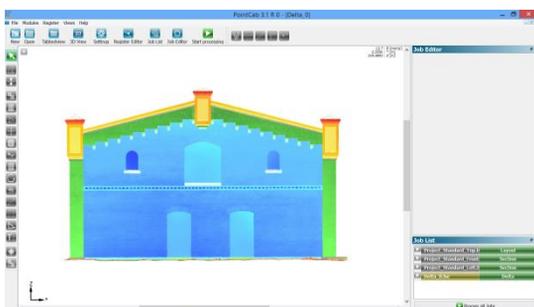


Illustration: colored map of deviation

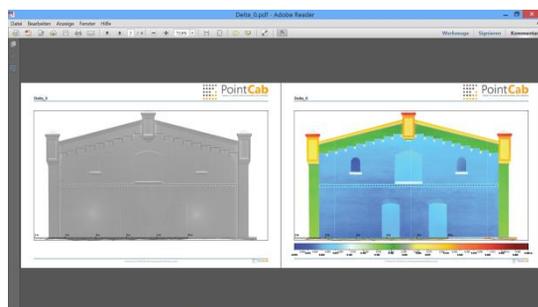
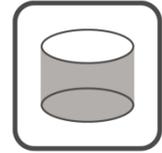
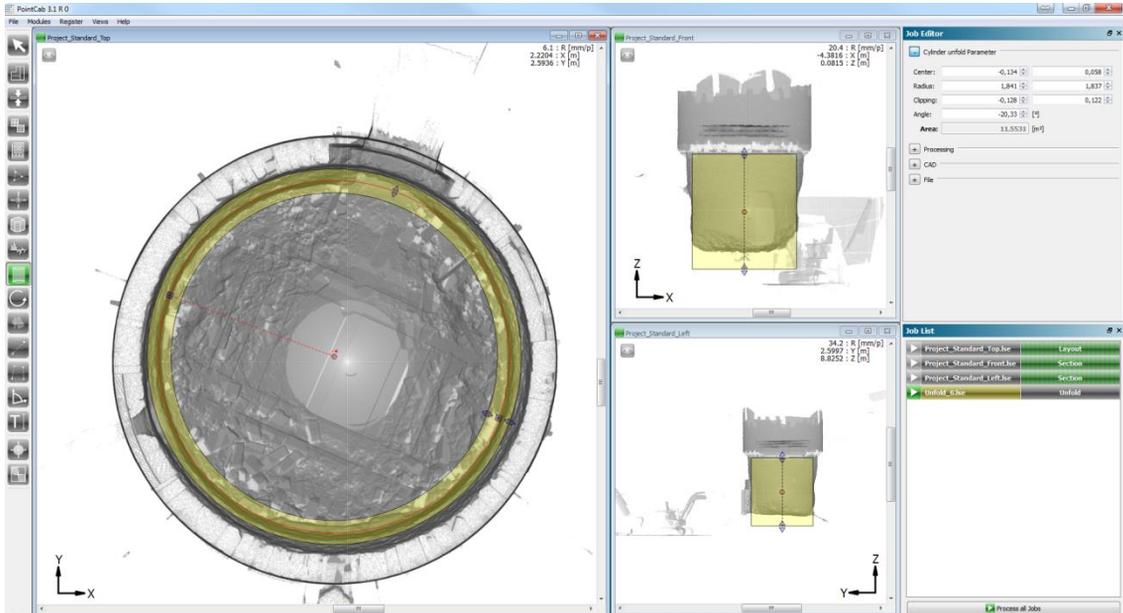


Illustration: PDF protocol of deviation

# POINTCAB TOOL UNFOLD



The workflow of the Unfold tool:



The **PointCab Unfold tool** allows you to create an unfolded surface of cylinders with elliptical base in three easy steps:

1. **Enable Unfold tool**
2. **Define elliptical form**
3. **Start the calculation**

This provides you with an ideal function to evaluate structural unevenness of surfaces with an elliptical base; for example, present the number and shape of the masonry on a brick tower or silo.

The results are as diverse as your project:

With the Unfold Tool you can project the surface of a cylindrical object true-to-scale in a 2D format. All unfolded areas contain proper **coordinate data correctly exported in DWG, DXF or DAE** format to be placed directly into your CAD system. In addition, a PDF report with statistical adjustment of the deviation will be created. The combination of these two results gives you a truly powerful analysis tool.



Illustration: orthophoto of the unfolded area

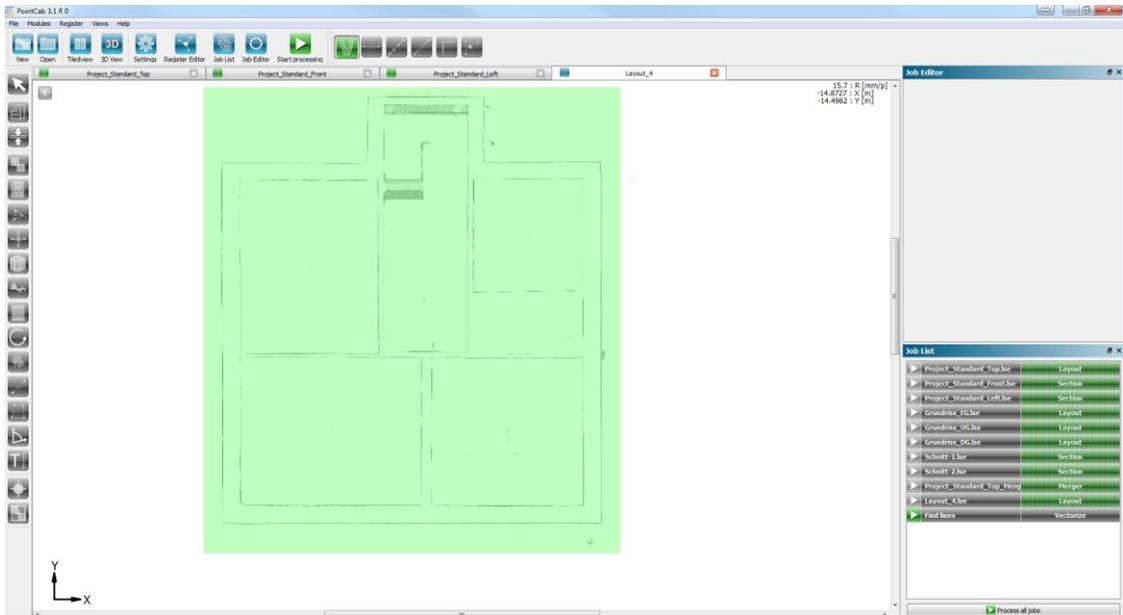


Illustration: PDF protocol of the unfolded area

# POINTCAB TOOL VECTORIZER



The workflow of the Vectorizer tool:



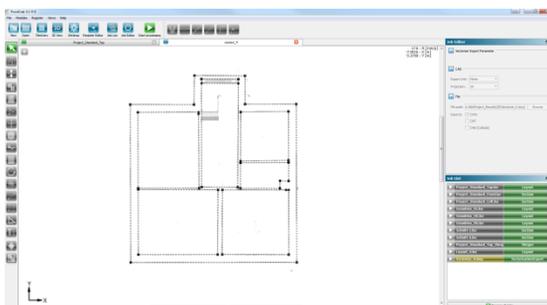
With the **PointCab Vectorizer tool** you can create horizontal cuts in three simple steps from your point cloud:

1. **Enable Vectorizer tool**
2. **Mark the area of a previous created floor plan**
3. **Generate vector lines**

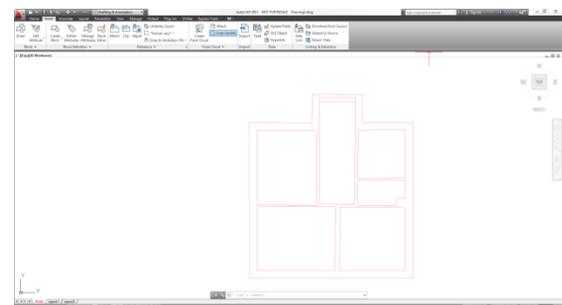
This provides you with an ideal tool to create a vector drawing out of your floor plan.

The results are as diverse as your project:

Edit the lines with our **Vectorizer Toolbar** and clean up your plan in just a few clicks. You have a choice to create, connect, merge, and intersect lines, or force two lines into a predefined angle. The Vector lines contain proper **coordinate data correctly exported in DWG, DXF or DAE** format to be placed directly into your CAD system.



*Illustration: Vector lines in the orthophoto*



*Illustration: imported lines in AutoCAD*