# Leica 3D Disto

## Tutorial
## Veranda & Conservatory

PART OF HEXAGON

- when it has to be **right**

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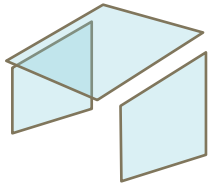
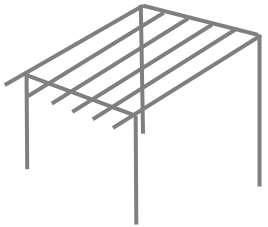
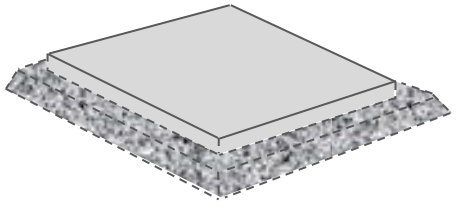
# Veranda & Conservatory

## What do you need to know?

What position you are going to fit the Veranda in?
What is the height and width?
What is the length?
Is the wall straight between fixings?







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## We want to put a veranda to an existing building

The process:

Follow the step by step process for the workflow.

In this scenario, the measuring time with the 3D Disto was no more than 15 minutes.

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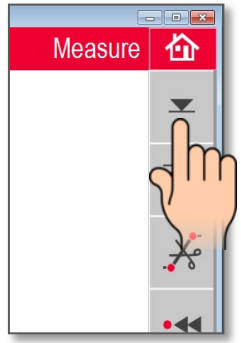
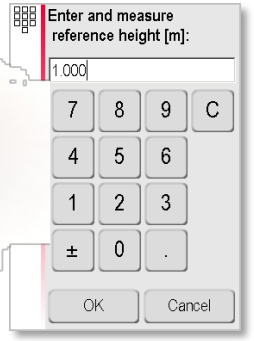
## Refer to the floor level

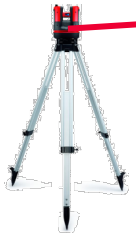
Step 1:

Press the Reference Height key in the toolbar. You will be asked to set your reference height, set to “0” and shoot to the finished floor level or set to a measured known meter mark and input the height – Press “OK”.

Then measure this level.



This will reference your working heights in relation to all other measurements or design data.

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## Measure façade details

Step 2 :

Measure necessary details. Use the Pointfinder's photo function for documentation.

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## Measure the ground

Step 3:

Measure the ground to determine volumes of aggregate materials and for the baseplate

Done!

Save your measurement at any time into the “File Manger” using the house key on the top right hand corner.

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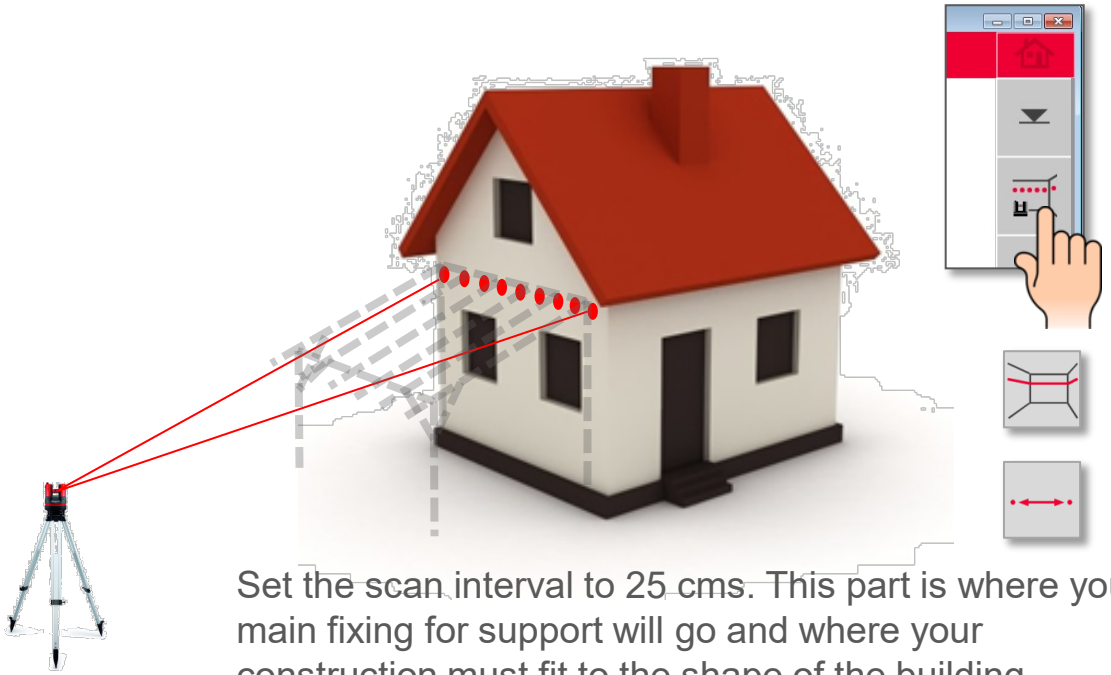
## Scan uneven surfaces

Step 4 (optional) :

Once you have finished the individual measurements you add a horizontal or vertical scan to check the flatness of a surface.

Start scan, choose “point to point” option and measure start point from one end to the other.



Set the scan interval to 25 cms. This part is where your main fixing for support will go and where your construction must fit to the shape of the building.

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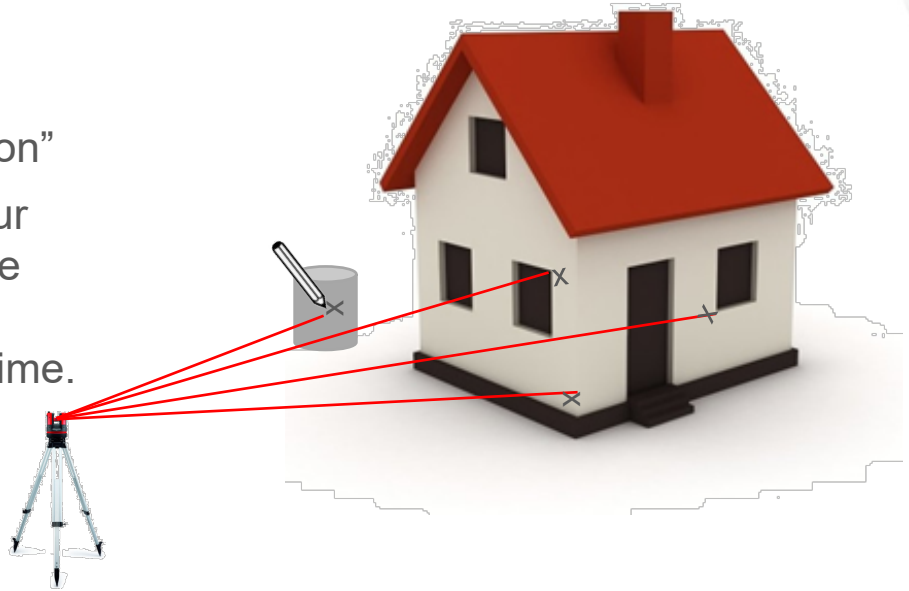
## Secure your location

Step 5 (optional):

Menu – Applications – “Secure Location”

Not necessary but you can secure your location before you want to change the 3D Disto’s position or return to site to continue the measurement at a later time.



Ensure a minimum of 3-5 targets are captured that will not move. More if necessary. They may not be on the building, it could be something else in close proximity. There is no need for a ladder as you can see the points in the Pointfinder.

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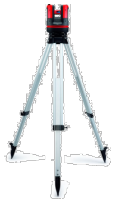
## Saving measurements for post processing

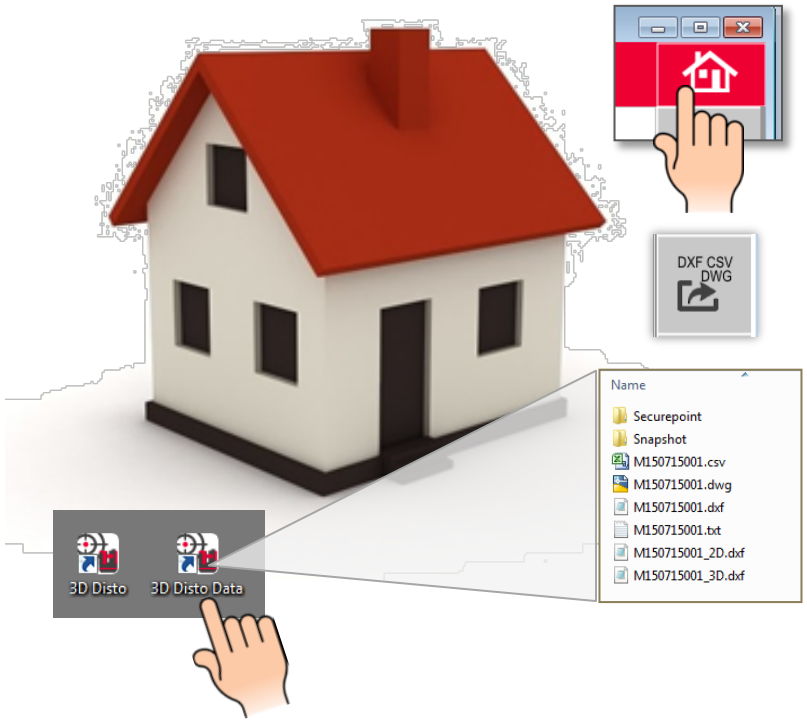
Step 6:

If not yet done, save and export the measurements:

Press Home key, create a new work folder. Once saved, open the File Manager, select the measurement or the complete folder and press Export key.

Now you find the export files in the Data folder on your desktop.





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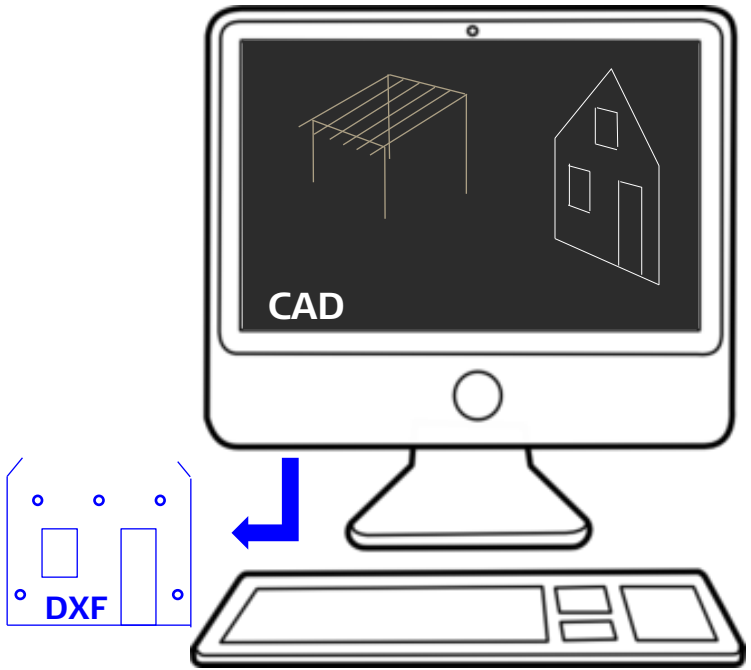
## Post processing in software for manufacturer

Whatever software you are using, you can check and alter the measurements and evaluate the data and finish off the drawing, then send this to the Veranda manufacturer for production.

Done!




Option:
The 3D Disto's Projector application indicates fixing point positions on the façade via laser if you have them in a DXF file.

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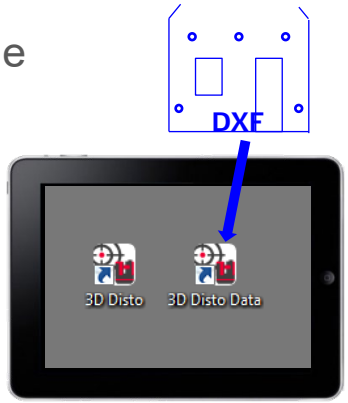
## Projector function for fixing

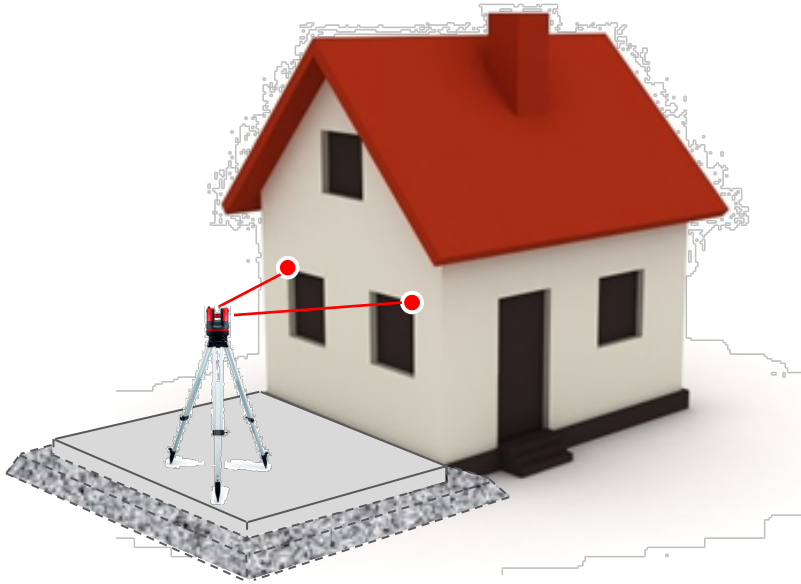
Step 7:

Copy the DXF file to the 3D Disto Data/import folder on your desktop

Start projector function in Menu> Application.

Measure at least two points on the facade the veranda refers to, for example window corners.



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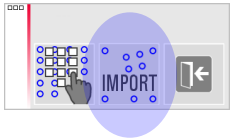
## Projector function for fixing

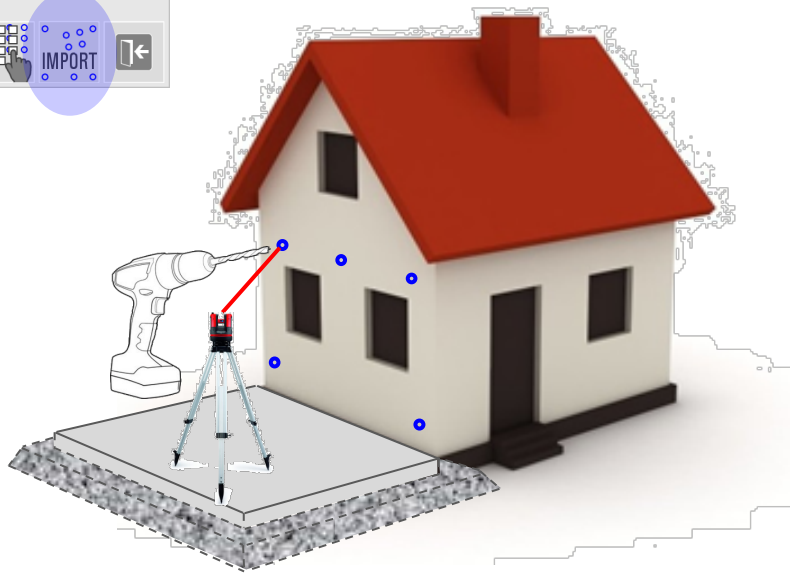
Step 8:

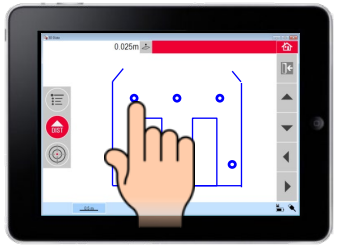
Select Import option and upload your DXF file.

Follow the assistant to adjust the data, proceed with point projection.

You are now going to mark the points where the fixings will go for your veranda.





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## The finished product

Step 9:

The fitting process.

The Veranda is now finished.

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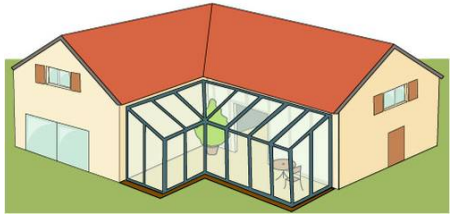
## Anything is possible



Between two walls

Around two walls

In the house

Between two houses

Between three walls

Between two houses

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## Anything is possible

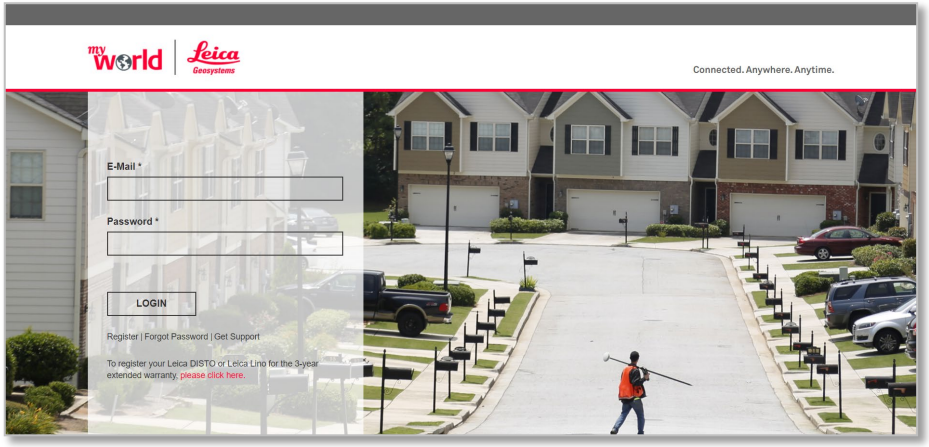
# Leica 3D Disto

## Registration at myWorld

Register your 3D Disto on myWorld for:

- warranty extension
- license keys
- more tutorials
- free software updates
- support
- manuals

www.myworld.leica-geosystems.com

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