

## Silhouette Curio Base Plate (small) for PCB etching

f **fmMike**

[VIEW IN BROWSER](#)

updated 10. 8. 2022 | published 10. 8. 2022

### Summary

Got the idea to use the Silhouette Curio to etch / scratch / cut wire traces to ABS-printed, copper plated "PCBs" for...

[Hobby & Makers](#) > [Tools](#)

Tags: [base](#) [curio](#) [etching](#) [fixture](#) [pcb](#) [silhouette](#)

Got the idea to use the Silhouette Curio to etch / scratch / cut wire traces to ABS-printed, copper plated "PCBs" for my hobby projects and found the sticky bases not suitable to fix any printed PCB in proper way (already ruined on first try...) ...

Design fits the **small base plate** packed with the Curio (not received the big one yet...) using the 2 fixation points at the top and the 4 clips at the sides. Cut-out should lineup with the left tool head (red marking) when the machine is powered.

Total height of 5mm with a 1.5mm pocket to place standard one / double sides PCBs - you'll need the 1mm extension to get the final height for tooling.

M4 screw holes added for fixation, but not working yet => the jig shown on the pictures crashes the tool head and caused blocks, shifts and other unpleasant things...

**Update:**

Done some testing and the fixation clips blocked the slider... removed some material to store them securely in the base plate during movement. Clearance should be okay now, but in case it does not, STEP files are attached for modification.

PCB fixation: tested and looks quite okay, not blocking the tool head anymore...

**New files:**

- Curio Base 1pcs => STL + STEP
- Curio Base 2pcs => STL + STEP
- Curio PCB Fixture => STL

**Obsolete files:**

- Base Plate v2.stl => still available, just in case...

**Print Settings****Printer:**

Alfawise U30pro

**Rafts:**

Doesn't Matter

**Supports:**

No

**Resolution:**

0,2mm layer height

**Infill:**

20%

**Filament:**

Nothing special... PLA, PETG, ABS, ...

**Notes:**

Can be printed as 1 piece in case you've something big at home

For everybody else: load the file and "separate the mesh" - tested with S3D and an Alfawise U30pro on ABS

## Post-Printing

### Check Screw holes

use a M4 screw to check whether the threads are printed correctly - maybe you'll need to lower down the layer height to 0.16mm for good threads... 0.2mm worked for me...

### Printed 2 pieces...

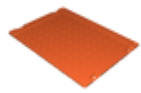
The 2 half sides should perfectly fit with a small gap (approx. 0.2mm) maintaining the distance between the screw holes. In case not, deburring the edges with a knife should help

Category: Tool Holders & Boxes

## Model files



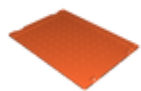
**testplatine\_100x75.stl**



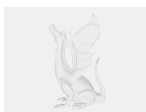
**curio\_base\_1pcs.stl**



**curio\_pcb\_fixture.stl**



**curio\_base\_2pcs.stl**



**base\_plate\_2pcs.step**



**base\_plate\_v2.stl**



**base\_plate\_1pcs.step**

[Find source .stl files on Thingiverse.com](#)

## License ©

This work is licensed under a  
**Creative Commons (4.0 International License)**



### **Attribution**

- 
- ✗ | Sharing without ATTRIBUTION
  - ✓ | Remix Culture allowed
  - ✓ | Commercial Use
  - ✓ | Free Cultural Works
  - ✓ | Meets Open Definition