

Skadis Bottle Tray Print & Hang Guide

One open bin, twelve printed hooks, and your bench back.

[One Plate](#)[Tree Supports](#)[Pre-Configured 3MF](#)

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My cousin Richard has a makerspace walled in Skadis pegboard he printed himself, and bottles of paint and solvent spread over every flat surface he had. This tray gets three of them up on the wall and off the bench.

In the download

File	What it is
<code>makerx-skadis-mount-bottle-tray.3mf</code>	Start here. One plate, oriented, tested profile, supports set up.
<code>makerx-skadis-mount-bottle-tray.stl</code>	The raw mesh for your own slicer. Stand it on its base, hook panel vertical.

1 · Measure your bed first

This one is 235 mm long — check before you start a seven-hour print

With the 5 mm brim on each side you need about **246 mm** of clear plate. A 220 × 220 printer cannot take it, and turning the plate 45 ° makes it worse rather than better — the part then needs 236.7 mm on *both* axes.

The part	
Overall	235.2 × 99.6 × 60.0 mm (9.3 × 3.9 × 2.4 in)
Inside the bin	228 × 80 mm, 55 mm deep · about 1.0 liter
Hooks	12, in two rows of six on a 40 mm grid both ways
On the plate	186.70 g PLA · 62.60 m · 7 h 26 m

Hook spacing was measured off the mesh, not copied from a spec sheet. It suits an IKEA SKADIS board and the printed Skadis-pattern panels people make themselves.

2 • Slice it

- 1 Open `makerx-skadis-mount-bottle-tray.3mf` in Creality Print, or any slicer that imports 3MF project files.
- 2 When it asks whether to load the project's print settings, **say yes** — that is the whole point of the 3MF, and it brings the support setup with it.
- 3 Confirm your printer and filament, then slice. Using the STL? Stand it on its base, hook panel vertical, tree supports on.

★ Supports are not optional here

The twelve hooks are horizontal tabs off a vertical wall, so every one starts in mid air. Tree supports on auto at 30 °: **6.69 g**, half an hour, off by hand.

3 • The profile baked into the 3MF

Using your own instead? Match these — sliced and print-tested on a Creality Hi 2, 0.4 mm nozzle.

Quality	
Layer height	0.12 mm (0.20 first layer)
Walls	3 loops
Top / bottom	5 / 4 layers
Infill	9 % gyroid

Supports & adhesion	
Supports	Tree, auto
Threshold	30 °
Brim	Auto, 5 mm

Material & plate	
Filament	PLA as sliced · PETG if solvents live on your bench
Nozzle temp	215 °C
Bed temp	60 °C
Plate	Epoxy resin

What it costs you	
Print time	7 h 26 m
Part	180.00 g
Support	6.69 g

One long thin part, seven hours in

A 235 mm footprint with 3.6 mm walls does not forgive a lifting corner: clean plate, brim on.

4 • Before you hit print

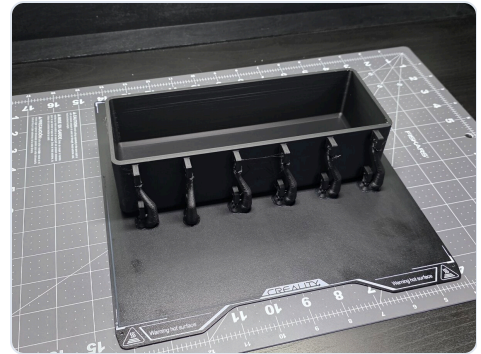
- ☐ About 246 mm of clear bed on the long axis, brim included.
- ☐ Tree supports and brim confirmed **on**.
- ☐ Around 200 g of filament left on the spool.
- ☐ Six columns of free slots on the board, two rows tall, where you want it to live.

5 • Off the plate

- 1 Let the plate cool completely, then flex it and lift the tray off.
- 2 Peel the brim away from one corner and work it around the base.
- 3 Twist the trees off the hooks by hand. They are anchored under each hook and generally let go in one piece each.
- 4 **Clear the throat of every hook.** The gap between the hook lip and the back panel is where the support started, so it is where the last crumbs hide. Run a fingernail or a deburring blade through all twelve.

★ The throats are the only fussy part of this build

A hook with support still in its throat will not drop onto the board. If the tray sits proud of the wall or will not seat evenly, this is why — not the board.



Straight off the plate. Every hook has its own tree under it — that is the 6.69 g the slicer quoted.

6 • Hang it

- 1 Line the **top row** of six hooks up with a row of slots and push them through.
- 2 Let the tray drop about 5 mm. The lips catch behind the board and the bottom row swings in against it.
- 3 Press the bottom of the tray flat to the board and check it sits level. Lift straight up to take it off again — nothing screws, clips or glues.



In service, holding what it was built to hold. The board here is a printed Skadis-pattern panel, not an IKEA one.

7 • What it holds, honestly

- **One open bin, no dividers.** 228 × 80 mm inside and 55 mm deep, which is three bottles of craft paint across with room to get your fingers in beside them.
- **It started life sized for isopropyl.** Three square IPA bottles was the original brief and the depth is still right for them, but the width came in during design, so three of those no longer stand side by side. Paint bottles are what it carries now.
- **Bottles, not ballast.** Twelve printed hooks in a plastic board is plenty for a liter of paint. It is not a place for sockets, clamps or anything made of steel.
- **PLA is fine; PETG is better near solvents.** The tray ships sliced in PLA and that is what is in the photographs. If acetone or lacquer thinner lives on your bench, print it in PETG and wipe spills either way.

Where precision meets the printer

Thanks for printing this one. If it took three bottles off your bench and put them somewhere you can reach, that is exactly what it was designed to do.

For years my design world existed entirely behind a screen. As a mechanical engineer I spent countless hours building complex CAD models, but there was always a missing link — the ability to hold an idea in my hands. That changed in January 2026, when I went headfirst into 3D printing. The moment that first layer stuck to the bed, the gap between concept and reality vanished.

Coming from a background where precision is everything, tolerances aren't suggestions to me — they are a religion. I didn't want to print trinkets; I wanted to apply industrial engineering discipline to desktop manufacturing. Every wall count, every layer height and every infill percentage in this guide is a deliberate decision backed by testing. If a part can't handle the environment it was built for, it goes back to the drawing board.

Three principles behind every print

01

Functional Engineering

High-utility, real-world solutions rather than purely decorative models. If it doesn't solve a practical problem, it doesn't leave the workstation.

02

Rigorous Tolerances

Designed in professional CAD with mechanical intent — press-fits that click and assemblies that work straight off the build plate. No sanding, no filing, no guesswork.

03

Bridging the Gap

Industrial structural integrity at maker speed. Proving a desktop printer can produce parts worthy of real engineering applications is what drives every release.

The workshop

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IF THIS ONE EARNED ITS SPOT

A **Like** or a **Favorite** on the model page takes a second and genuinely helps. A **Boost** helps more than either — it is what puts a design in front of makers who would never otherwise come across it. And if you **Follow** me, new models and updates land in your feed as they are released. However you choose to support it, thank you — it is what keeps everything here free to download.

Need it narrower, deeper, or split into compartments for something specific? Leave a comment on the model with the bottle you are trying to store. That is where the next size starts.

Happy hanging. — MakerX Designs · makerxdesigns.com · © 2026