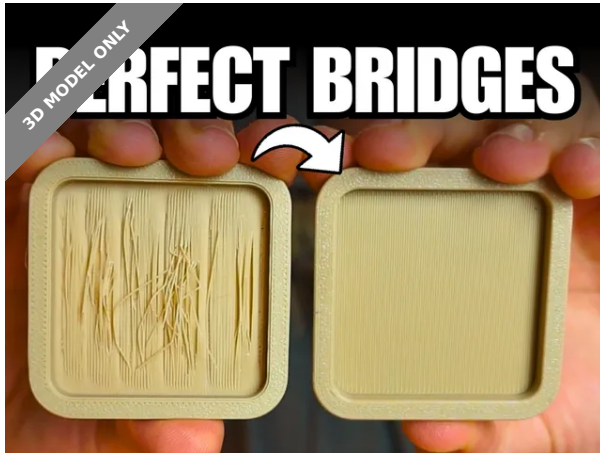




3D Printing Bridge Calibration Test (Basic & Advanced)



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Summary

Two test models to calibrate bridge flow and speed in your slicer. Use them to find the perfect settings for unsupported

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Watch the video tutorial

In the video, I explain:

- How bridge flow and speed affect the print.
- Why more flow gives smoother results.
- How to tune these settings in **OrcaSlicer**.
- How to combine this with **Tree Supports** → “**Critical regions only**” to skip supports in bridges automatically.

About this model

This is a **bridge calibration test** designed to help you fine-tune the **flow**, **speed**, and **cooling** parameters of your 3D printer for perfect bridges — **no supports needed**.

You'll find **two STL files** included:

BRIDGE CALIBRATION.stl → Simple version for short bridges (perfect for initial tests).

ADVANCED BRIDGE CALIBRATION.stl → To push your settings further.

Both files let you test different **Bridge Flow Ratios** (1.0 / 1.5 / 2.0) and **Bridge Speeds** (25 / 15 / 10 mm/s).

You can print them one after another and easily see which combination gives the best results on your printer.

Recommended settings

Parameter	Suggested values
Flow	150 – 200 %
Speed	10 – 15 mm/s
Fan	100 %
Layer height	0.2 mm
Material	PLA (recommended)
Nozzle	0.4–0.6 mm

These values are what worked best for me on a FlashForge AD5X with a 0.6 mm nozzle.

Why this test matters

Most slicers are tuned for printing on solid layers, but **bridges behave differently** — there's nothing underneath, so the filament doesn't get squished or widen as usual.

That's why increasing the **bridge flow** often gives better results: wider lines that touch each other and stay straight in the air.

Combining that with **lower speed** and **maximum cooling** produces clean, smooth bridges without sagging.

Notes

You can download both STLs and print them separately.

For faster comparisons, print at 1 wall / 10 % infill.

Share your results — I'd love to see how your bridges turn out!

More resources

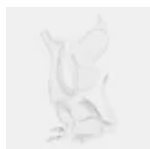
Complete Fusion 360 Course (in Spanish):

<https://knincustom.com/pages/cursos>

Find us on YouTube:

https://www.youtube.com/@KNIN_Custom

This remix is based on



None

Model files



bridge-calibration.stl

☐ Basic bridge test



advanced-bridge-calibration.stl

☐ More complex bridge test

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