

Raspberry Pi 4 PC Case

 **Supernuts1**

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Summary

This case will give your Raspberry PI4 the look of a real Gaming PC... and there is no need for a laser cutting machine!

[Gadgets](#) > [Computers](#)

Tags: [raspberrypi](#) [raspberrypicase](#) [raspberrypihousing](#)
[raspberrypi4](#) [raspberrypi4bcase](#)

If there are any errors or you have requests for special changes to design, please let me know in the comments.

All pieces are support free!

Let's start with the list of parts you will need to complete the project:

1. 3D printed parts (See instructions on how to print "INSERT" files).
2. Raspberry PI 4
3. [Stepdown DC-DC LM2596S USB](#)
4. [Micro HDMI to HDMI female adapter left 19 cm](#)
5. Heat dissipation system of your choice, i suggest you [Low profile CPU cooler](#). The only one that does not fit is the [Tower Cooler](#)
6. [2 x 5V 40x40x10 mm fan](#)
7. 12V 1.5A Power Adapter (Surely you will have one at home to collect dust).

8. 5pz M3x10mm countersunk screw
9. 6pz M3x16mm countersunk screw
10. Some wires and dupont female connector
11. One piece of plexiglass 110x110x2 mm (NO lasercut required)

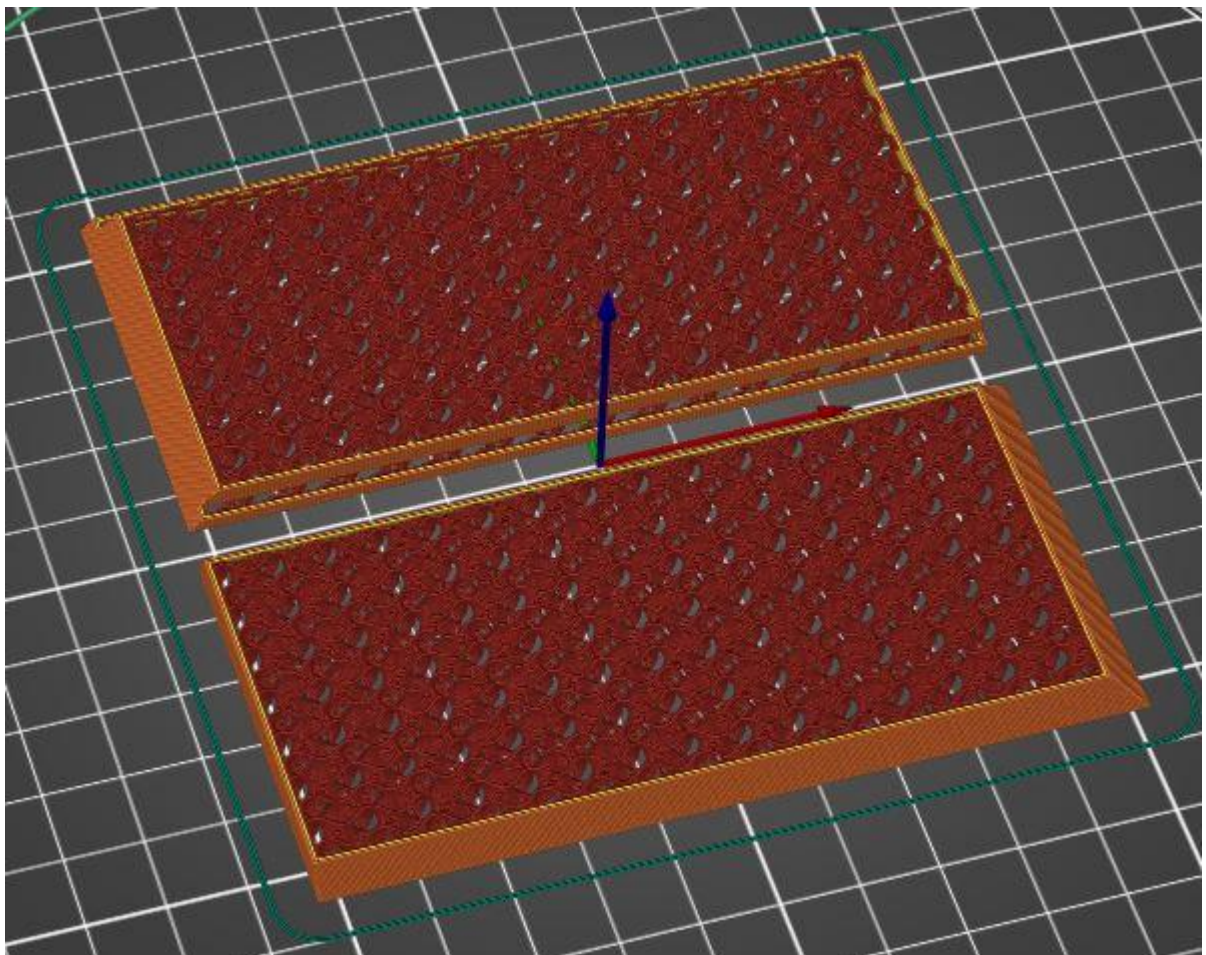
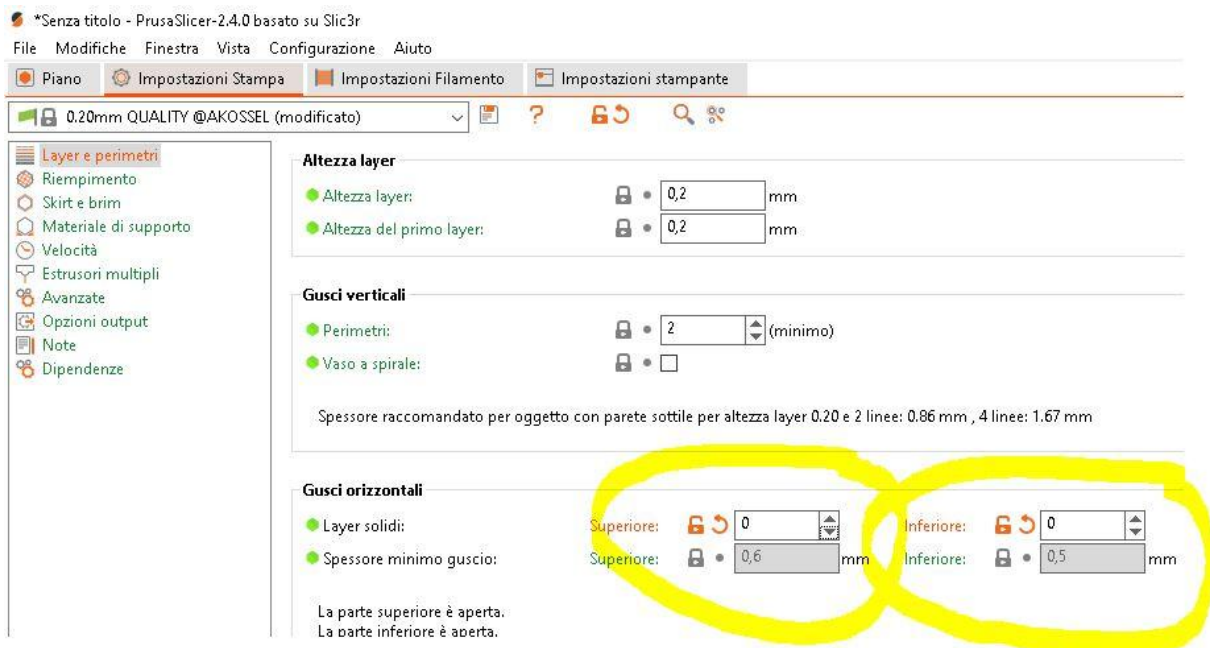
With this case I was able to achieve this results by performing [this](#) Stress Test:

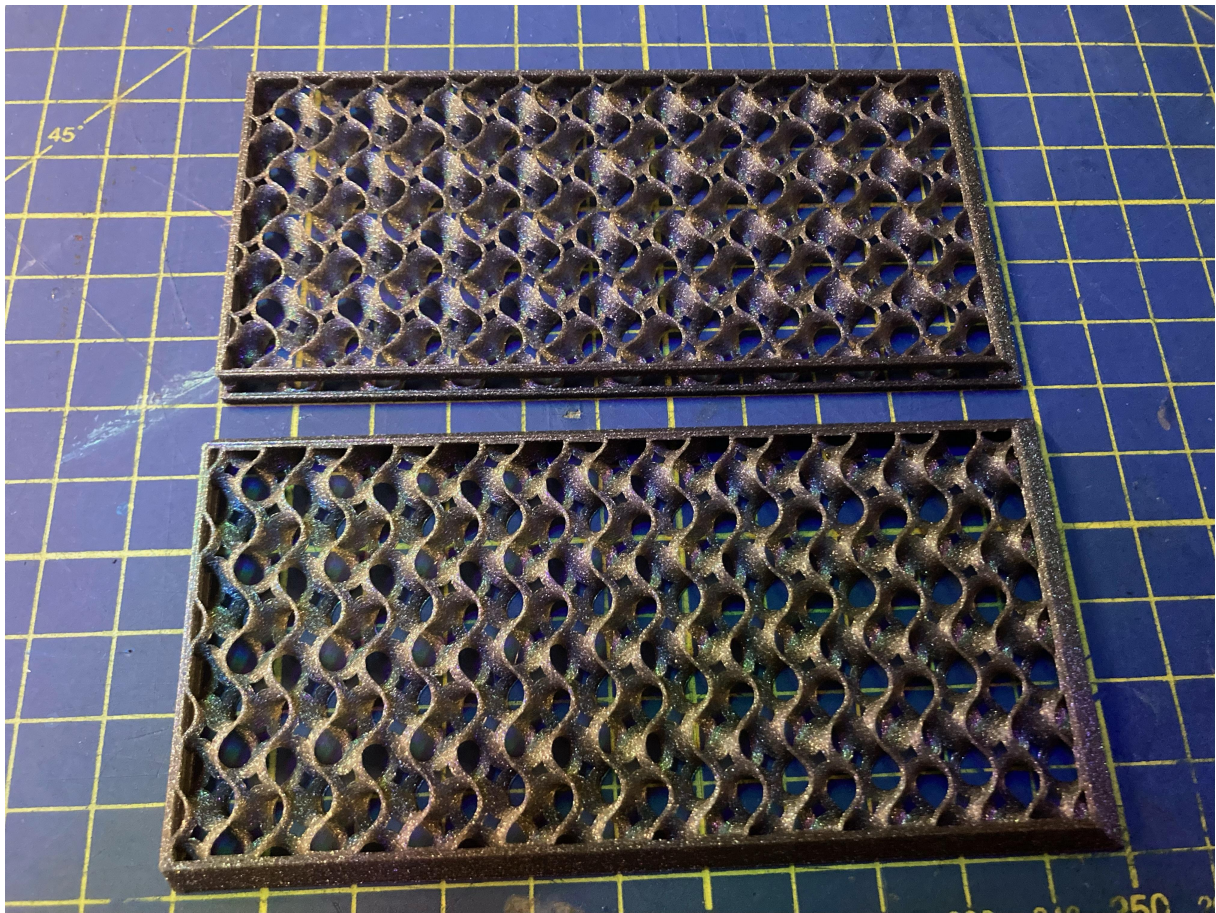
CPU SPEED	TYPE TEST	FAN VOLTAGE	FAN VOLTAGE
		5V	3.3V
STOCK	STRESS	37°	42°
	CPU BURN	40°	46°
2 GHZ	STRESS	46°	53°
	CPU BURN	56°	64°

Below is a video explaining how to assemble it

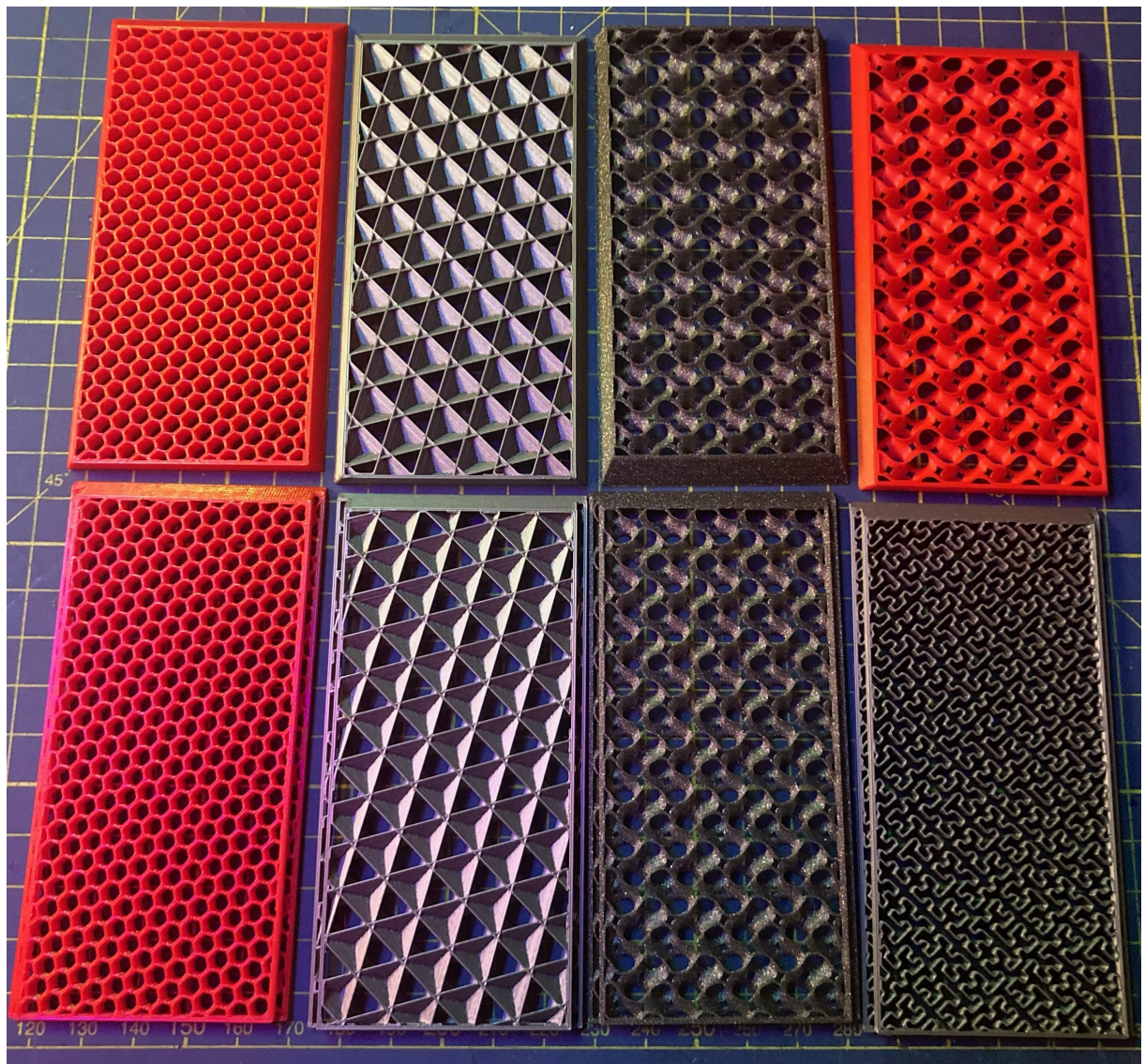
How to print “FRONT INSERT” and “TOP INSERT” files:

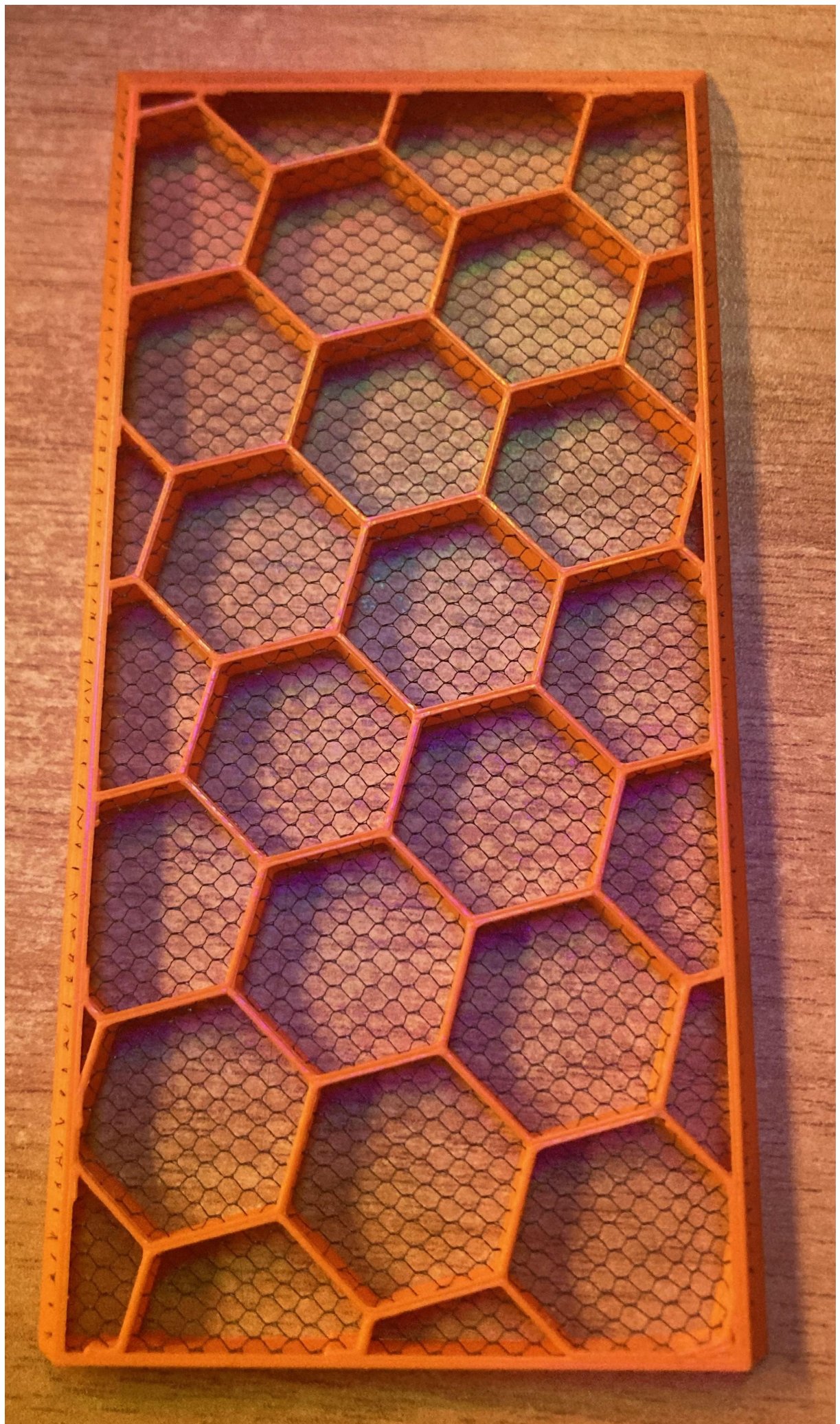
Simply by removing the number of top and bottom layers from your slicer and setting the right filling percentage, you will get the necessary pieces with the right properties.





Playing with density, fill patterns and color, you can customize your case and get results like these:





Model files



CASE

7 files



case-fractal.stl



inside-cover.stl



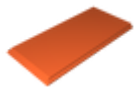
hdmi-holder.stl



lm2596s-usb.stl



front-cover-2-fan.stl



upper-insert.stl



front-insert.stl



MOD

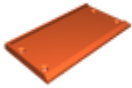
3 files



case-fan-top.stl



inside-cover-fan-top.stl



front-cover-closed.stl

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