



Super Heavy Duty Shelf Bracket (100kg, single)

T Till

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Summary

For shelves up to 35cm and heavy weight requirements. Inspired by topology optimised models.

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Heavy duty wall bracket for shelves.

When properly attached and shelf no longer than 35cm, the bracket can hold up to 100kg.

(I carefully hung onto one of it with my body weight and it held without any problems. The holder can certainly take even more weight.)

It doesn't have to be solid and only weighs 330g.

The following screws are required for mounting a bracket:

To the wall:

1 countersunk head screw Ø6mm / length min 100mm (top)

1 countersunk head screw Ø3.5-4mm / length min 50mm (bottom)

To the shelf:

2 countersunk head screw Ø4mm / length 30-40mm

The original model measures 250x250 and fits a Bambu Lab P&X series.
For smaller printers, the bracket can simply be downsized.

I recommend using a heated chamber because it increases the stability of PLA. Alternatively, more perimeters can be used for increased stability.

Printing profile:

PLA

6 perimeters (0,4 nozzle)

5 top and bottom layers

25% infill

no supports

Filament used: GEEETECH Black walnut PLA

i do not recommend using PLA, it creeps over time under constant stress. PETG and ABS/ASA is the better choice for heavy loading.

Model files



heavy-duty-shelf-bracket.3mf

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