



## Simple filament rack for wardrobes



eifelfarmer

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### Summary

A simple design of a wardrobe filament rack (or anywhere where you have a left and right flat surface)

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Designed for filament storage in old wardrobe in our 3D printing room but you could also fit into a recess or between wall/furniture or furniture/furniture, anywhere you have a flat surface left and right. I have printed in 1m wide with surprising strength and stability even when fully loaded with full spools. Although the design allows for variable width, I can imagine over 1,2-1,5m the wood would likely sag under the weight without some sort reinforcement.

Assembled and used flat (without fixing) I can imagine my design would also work to convert a regular/cupboard into a filament storage solution. To make the filament rack as I intended, you will need the following per rack:

- 2 x 3D printed parts
- 2 x 30mm diameter wood cut to length
- 6-10 screws of appropriate type for material you are fixing to (and maybe also dowels/wall plugs if not fixing to wood). I found 3 per mount to be

adequate. Choose the length of the screws so carefully as to avoid going through or lifting the veneer on the walls of the wardrobe.

Assemble by inserting the 30mm diameter wood into the mounts (flush to outside) and test fit before fixing. I fitted the first mount by eye, but used a spirit level (smartphone APPs available too if you don't have one) placed on the 30mm diameter wood will help achieve a level installation. We installed our racks with a deliberate slope forward (less vertical clearance space required to remove), but I had originally designed to use flat - experiment with taking rolls in and out to see what works for you.

I printed in Geeetech PETG black, but I think you could use almost any material (ABS, PLA, PC, Nylon) to print. I would however use minimum 4-5 walls/perimeters/shells for maximum strength (or whatever your preferred slicer calls them).

I also designed the filament material labels to fit onto 30cm diameter wood or tubing, see my other models.

## Model files



wardrobe-filament-rack.stl

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