Parametric Couch Riser

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VIEW IN BROWSER

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Summary

Riser for square legged couches with adjustable width and height.

Household > Living Room

Tags: parametric leg riser couch

Overview

This is an adjustable riser for square legged couches. You can edit the size and height of the riser via parameters in the FCStd file.

I found that for my couch, 88mm was enough for the leg to fit snugly in the riser without putting pressure on the lip.

I found that 25mm was enough height to allow my robot vacuum cleaner to fit under the couch without issue while not dramatically changing its appearance or causing instability.

You will need to remove the small pad nailed into the bottom of the couch leg if it is there. Failure to do so will likely cause cracking of the riser.

If there is interest, I can release models with separate X and Y inner dimensions and/or a recess for the small pad.

Printer Settings

These are the settings that I used, but your values may need to be different:

Material	PLA+
Brand	eSun
Vertical Perimeters	4
Horizontal Perimeters	4
Infill Pattern	gyroid
Infill Density	20%
Supports	None

Parameters

Available Parameters

Parameter	Description
riser size	adjusts the inner dimensions of the riser - adjust this to snugly fit the leg of your couch
riser height	adjusts the height to elevate the leg by. Note that this is the height from the ground to the pad, not the ground to the lip.

Adjusting Parameters

1. open the FCStd file in Freecad
2. select the “parameters” sheet
3. input an appropriate riser size
4. input an appropriate riser height
5. export in a format appropriate for your desired slicer.

Model files

couch-riser-88x25.stl

couch-riser-88x25.step

couch-riser.fcstd

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