



Gridfinity Lite Stackable Lid - Parametric



jsinkers

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Summary

A lightweight, stackable lid for Gridfinity bins - parametric with Fusion source files

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Based on Zack Freedman's Gridfinity system

Design intent

- close off gridfinity bins from dust
- allow stacking on top
- low filament use
- partially transparent when printed with transparent filament
- slight interference fit

Overview

While Gridfinity encourages open bins, I have several project boxes that collect materials for a project which I want to put away on a shelf while not in work, and a lid is helpful for stacking different sized boxes, as well as adding some stiffness to the large gridfinity lite boxes I've been printing.

There are some other stackable bin lids available but all that I've found seem to use an excess of material and are hard to make relatively transparent.

The source currently does not include magnet/screw holes, as I don't use them and didn't want them on lids.

I generated the source file using the spec instead of the available files because it ended up being simpler that way, but as a result the parameters are limited to the x and y numbers of bins. This however means it should be simple to make any edits that you need.


Parametric model


To modify the size of the grid in Fusion 360, change the parameters under Modify > Change Parameters. Note that this will require you to reselect all the bodies in the combine operation (this will go yellow in the timeline).

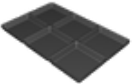
Print settings

I printed this in PLA using 0.6mm nozzle at 0.3mm layer height, but 0.4mm nozzles should work fine.

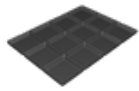
Model files

 **source** 1 file

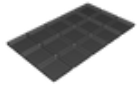
 **gridfinity-parametric-stackable-lid-v7.f3d**

 **lid-2x3.3mf**

 **lid-3x3.3mf**



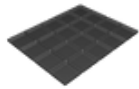
lid-3x4.3mf



lid-3x5.3mf



lid-2x2.3mf



lid-4x5.3mf

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