



Customizable IKEA SKADIS/SKÅDIS Bin, Tray, Shelf, Basket & Tool Holster Generator v2.1 (w/Partition Generator)



3icad

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Summary

Parametric IKEA SKÅDIS generator. Customize dimension & dividers to print trays, bins, shelves, baskets & tool holsters.

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[skadistoolholster](#)

Fully Parametric IKEA SKÅDIS (Skadis) Bin / Tray / Shelf Generator (w/Partition generation)

Updated to v2.1.Added generation of Baskets and Tool Holsters

Need a custom-sized storage solution for your IKEA SKÅDIS pegboard? This parametric model allows you to generate custom **pen holders, catch-all trays, bins, flat shelves, baskets or tool holsters** perfectly sized to your exact needs.

It aligns seamlessly with the standard **40mm IKEA SKÅDIS grid system**.

No need partition? You can still download use the v1 here:

<https://www.printables.com/model/1807283-customizable-ikea-skadis-bin-tray-shelf-generator>

Key Features

- **Fully Customizable:** Adjust length, depth, wall heights, and corner softness.
- **Customizable Partitions:** Divide your bins and trays into a grid of columns and rows, further subdividing each row into sub-columns.
- **Versatile Designs:** Create everything from shallow trays to tall pen cups or open display shelves.
- **Grid-Aligned Hooks:** Fits directly into standard SKÅDIS mounting holes.
- **Print-Friendly:** Designed for easy FDM 3D printing without the need for supports.

What's Included?

- **Ready-to-Print Files:** Download the pre-generated STLs for common bin, tray, and shelf sizes—no CAD software required.
- **Parametric Generator:** Need a unique length, depth, or wall height? Open the included .f3d file to generate a tailored fit in seconds.
- **Partition Generator (Fusion 360 Script):** Need to divide your bins and trays? Open the included [IkeaSkadisBinTrayShelfPartitionGenerator.zip](#) to generate partitions.

How to Customize (Fusion 360)

No Fusion360? Leave a comment for the dimension and partitions layout you need.

Open the file in **Fusion 360** (go to Modify > Change Parameters) and adjust the following values:

Parameter	Default	Description
lengthUnit	6	Number of SKÅDIS hole spaces along the width (1 unit = 40mm).
widthUnit	2	Depth extending out from the pegboard (1 unit = 40mm). It can be decimal (e.g. 1.5)
frontDepth	15 mm	Height of the front wall.
rearDepth	50 mm	Height of the rear back wall attached to the hooks. Must >=20mm; Recommend >=50 mm
partitionHeight	40 mm	Height of partition walls (if any) Set it to rearDepth when generating tool holster
basket_or_holster	0	0 - Do not generate as basket 1 - Generate basket 2 - Generate Tool Holster
basketGridSize	20 mm	Size of the basket holes
basketRibWidth	3 mm	Size of the basket ribs. Set it to 0 mm and combine with partition generator to print tool holster

Preset Configuration Examples

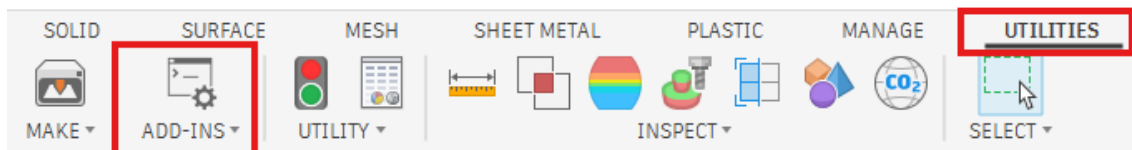
- **Pen Holder / Tool Cup:**
 - frontDepth: **80 mm** | rearDepth: **80 mm**
 - lengthUnit: **2** | widthUnit: **2**
- **Angled Catch-All Tray:**
 - frontDepth: **15 mm** | rearDepth: **50 mm**

- lengthUnit: **4** or **6** | widthUnit: **2** or **3**
- **Low-Profile Shelf:**
 - frontDepth: **0 mm** | rearDepth: **20 mm**
 - lengthUnit: **6** | widthUnit: **3**

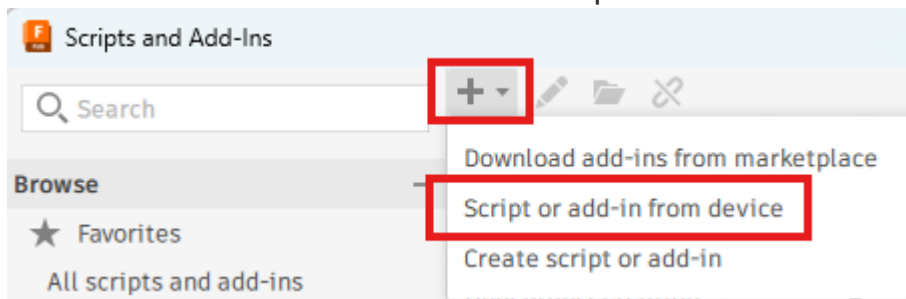
How to partition Bins and Trays

1 Install the script

1. Download and extract [IkeaSkadisBinTrayShelfPartitionGenerator.zip](#) into a folder
2. Open Fusion 360
3. Press 'Shift-S' or click UTILITIES and then ADD-INS



4. Click the icon and then select "Script or add-in from device"



5. Select the folder in Step 1

2 Run the script

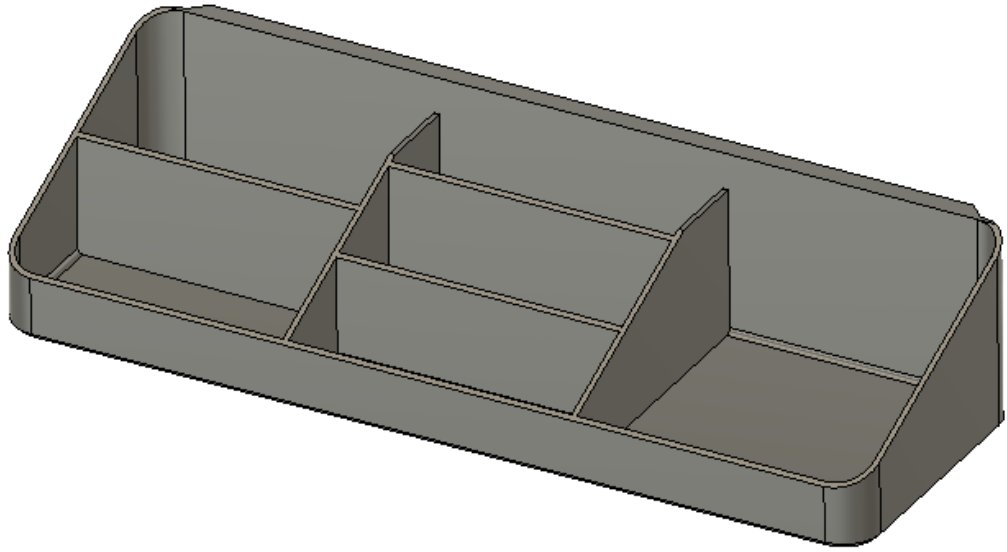
1. Open the "Ikea Skadis Pegboard Bin Tray Shelf Generator.f3d"
2. Adjust your bin's dimensions in Modify > Change Parameters: lengthUnit, widthUnit, frontDepth, rearDepth and partitionHeight
3. Press 'Shift-S' or click UTILITIES and then ADD-INS
4. Click the ► icon of "IkeaSkadisBinTrayShelfPartitionGenerator"



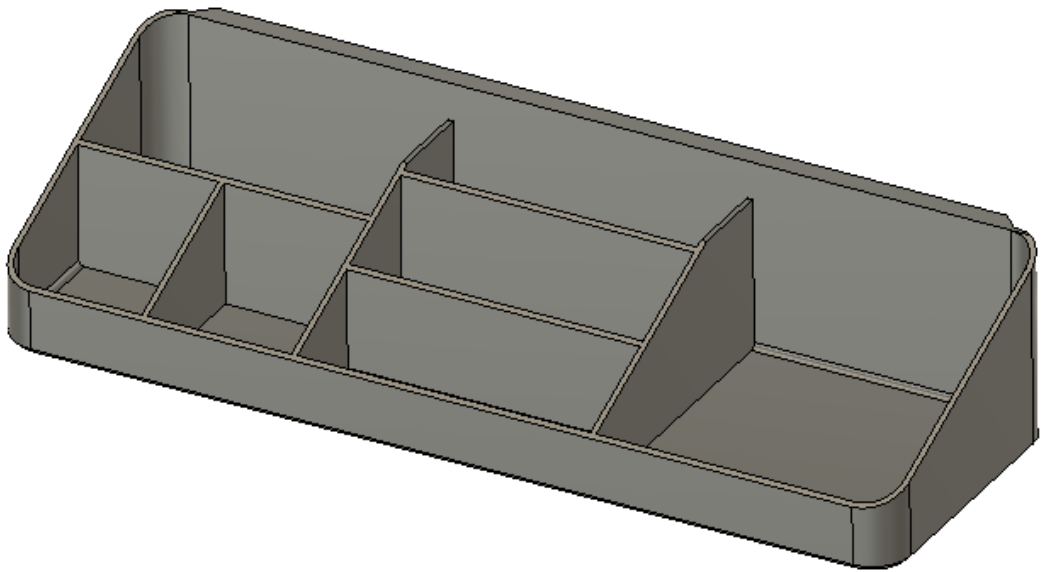
5. When you run the script, a prompt will ask for a **partition expression**. Follow the following grammar rules:
 - | (Pipe): Separates columns from left to right.
 - - (Hyphen): Separates rows within a column from top to bottom (back to front).
 - Numbers: Represent how many equal sub-columns to create in that row.
 - Single Integer: Shorthand for number of rows with 1 column each
 - 1: Removes all internal partitions for an open, undivided bin.

Examples & Visual Guides

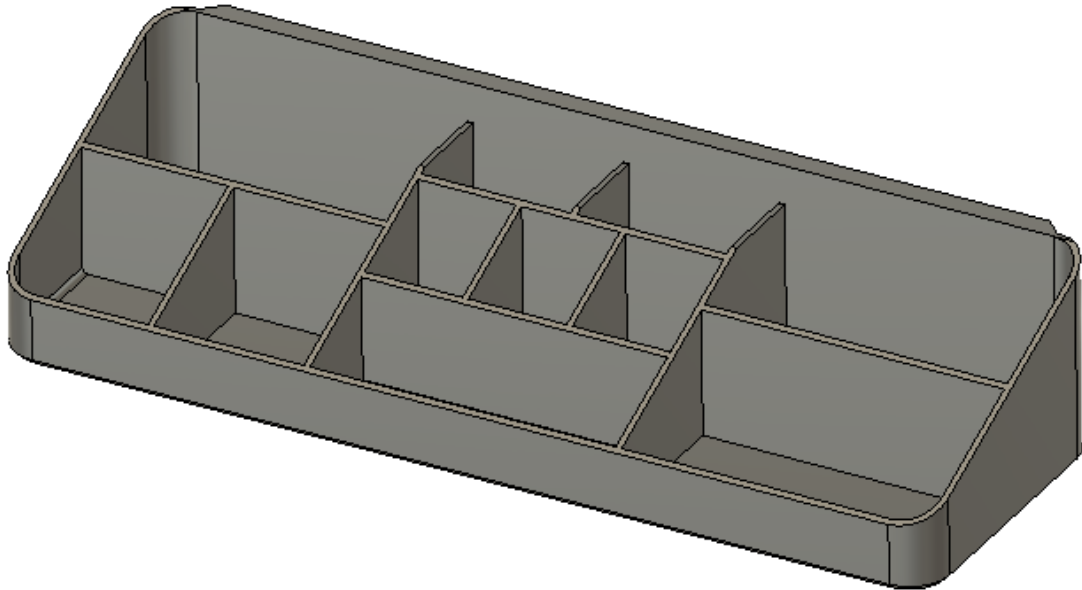
1. Basic Columns & Rows: 2|3|1



2. Sub-Divided Row: 1-2|3|1



3. Complex Asymmetrical Layout: 1-2|2-3-1|2



Recommended Print Settings

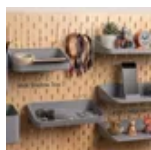
- **Layer Height:** 0.20mm
- **Wall Loops / Perimeter:** 3 - 4 walls for strong hooks
- **Infill:** 15% (Gyroid recommended)
- **Material:** PLA, PETG, or ABS/ASA
- **Supports:** No support needed

If you enjoy this model and script, please leave a like, share your makes, and post your feedback! Happy organizing!

No pegboard? No problem. Generate and print one here:

Find my customizable (size and tip angle) pegboard hook generator here:

This remix is based on



Customizable IKEA SKÅDIS Bin, Tray & Shelf Generator
by 3icad



Skadis/ SKÅDIS universal peg

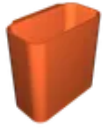
by Kim-Janosch

Model files



Bins

7 files



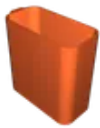
2x1-bin.stl



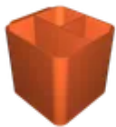
2x2-bin.stl



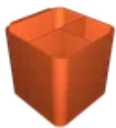
1x1-bin.stl



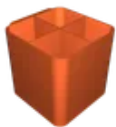
1x2-bin.stl



2x2-bin-1|2.stl



2x2-bin-1-2.stl

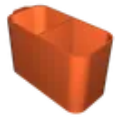


2x2-bin-2|2.stl

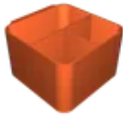


Baskets

6 files



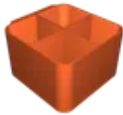
1x2-basket-2.stl



2x2-basket-1-2.stl



2x2-basket-2.stl



2x2-basket-2l2.stl



2x2-basket.stl



3x2-basket-1-2l3l1-2-1.stl



Trays

18 files



1x1-tray.stl



1x2-tray.stl



2x1-tray.stl



2x2-tray.stl



2x2-tray-1-2.stl



3x1-tray.stl



3x2-tray.stl



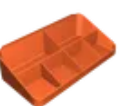
3x2-tray-1-3.stl



4x1-tray.stl



4x2-tray.stl



4x2-tray-1-2|1-2.stl



5x1-tray.stl



5x2-tray.stl



5x2-tray-1-2|1-2|1-2.stl



5x2-tray-1-2|2-3|1-2.stl



6x1-tray.stl



6x2-tray.stl



6x2-tray-1-2|2-3|1-2-3|2-2.stl



Shelves

8 files



4x1-shelf.stl



3x2-shelf.stl



4x2-shelf.stl



1x1-shelf.stl



2x2-shelf.stl



2x1-shelf.stl



1x2-shelf.stl

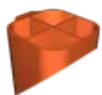


3x1-shelf.stl

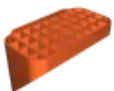


Tool Holsters

3 files



1x1-tool-holster-2l2.stl



2x1-tool-holster-4l4l4l4l4l4l4l4l4.stl



ikea-skadis-pegboard-bin-tray-shelf-generator.f3d

peg.stl

ikeaskadisbintraysshelfpartitiongenerator.zip

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