

Printables logo

# SnapLock Storage Boxes

3D MODEL ONLY [Hugo Hugo](#)

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updated 20. 2. 2024 | published 20. 2. 2024

## Summary

Introducing SnapLock Storage: Easily print and assemble sealable storage boxes in various sizes.No extra hardware needed

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I enjoy printing my own storage boxes, but I don't like to add extra hardware like screws. That's why I designed these boxes.

I developed a completely new closing mechanism utilizing the natural elasticity of the plastic for a satisfying snap-close.

**Filaments used in the pictures :** [Link](#)

- FormFutura Refill PETG Signal Blue
- FormFutura Refill PETG Iron Grey

## How to choose your size :

There are 36 different sizes available to accommodate your needs, with dimensions specified in the name of each STL file. The three numbers correspond to the inside dimensions of the box, the first one is the width, the second is the length and the third is the depth.

For example, the "Box\_bottom\_60\_60\_50" describes the box with inside dimensions of 60mm x 60mm x 50mm :

The top has only two dimensions (width and length), which should correspond to the first two numbers of the bottom.

For example, the "Box\_top\_60\_60" will match the following bottoms :

- "Box\_bottom\_60\_60\_25"

- "Box\_bottom\_60\_60\_50"
- "Box\_bottom\_60\_60\_75"
- "Box\_bottom\_60\_60\_100"

The "Box\_clip" is necessary for each box. The narrowest boxes will require one, while all the other boxes will require two.

All the STL files are already oriented for optimal printing. I recommend PETG and infill of 15% or more.

## Assembly :

The top and bottom snap fit together. To assemble them, just press them onto a table like this :

It is important to assemble them with this specific orientation as a groove will aid in snapping them into place.

I find it easier to assemble one of the two hinges first with a twisting motion, and then press the second hinge as described above.


Then insert the clips with a twisting motion like this :

When they are installed, they are very sturdy and will hold the box closed as long as they are in place.

Just make sure to install them with the right orientation to ensure easy box opening. The face that was on the print bed should be facing outward :

Enjoy :)

## Model files

	Box bottom	36 files
<b>box_bottom_60_60_25.stl</b>		
<b>box_bottom_60_60_50.stl</b>		
<b>box_bottom_60_60_75.stl</b>		

**box\_bottom\_60\_60\_100.stl**

**box\_bottom\_120\_60\_25.stl**

**box\_bottom\_120\_60\_50.stl**

**box\_bottom\_120\_60\_75.stl**

**box\_bottom\_120\_60\_100.stl**

**box\_bottom\_120\_120\_25.stl**

**box\_bottom\_120\_120\_50.stl**

**box\_bottom\_120\_120\_75.stl**

**box\_bottom\_120\_120\_100.stl**

**box\_bottom\_180\_60\_25.stl**

**box\_bottom\_180\_60\_50.stl**

**box\_bottom\_180\_60\_75.stl**

**box\_bottom\_180\_60\_100.stl**

**box\_bottom\_180\_120\_25.stl**

**box\_bottom\_180\_120\_50.stl**

**box\_bottom\_180\_120\_75.stl**

**box\_bottom\_180\_120\_100.stl**

**box\_bottom\_180\_180\_25.stl**

**box\_bottom\_180\_180\_50.stl**

**box\_bottom\_180\_180\_75.stl**

**box\_bottom\_180\_180\_100.stl**

**box\_bottom\_240\_60\_25.stl**

**box\_bottom\_240\_60\_50.stl**

**box\_bottom\_240\_60\_75.stl**

**box\_bottom\_240\_60\_100.stl**

**box\_bottom\_240\_120\_25.stl**

**box\_bottom\_240\_120\_50.stl**

**box\_bottom\_240\_120\_75.stl**

**box\_bottom\_240\_120\_100.stl**

**box\_bottom\_240\_180\_25.stl**

**box\_bottom\_240\_180\_50.stl**

**box\_bottom\_240\_180\_75.stl**

**box\_bottom\_240\_180\_100.stl**



**Box top**

9 files

**box\_top\_60\_60.stl**

**box\_top\_120\_60.stl**

**box\_top\_180\_60.stl**

**box\_top\_240\_60.stl**

**box\_top\_120\_120.stl**

**box\_top\_180\_120.stl**

**box\_top\_240\_120.stl**

**box\_top\_180\_180.stl**

**box\_top\_240\_180.stl**

**box\_clip.stl**

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