Ligneto Ŝnureto

CC BY NC SA

A sheet of wood (or other material)

From this

An elastic string

To this!

A stool and storage

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Ligneto Ŝnureto

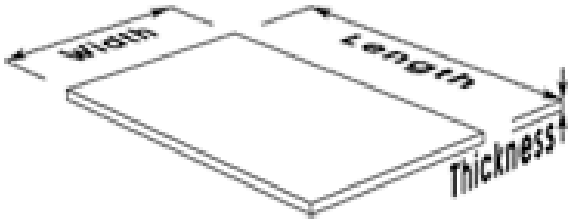
Product:

-You can use it as a stool or for storage.

Project:

-Either a Woodworking or a CNC project.

-Almost any size of board is usable without much material loss!



Extra:

-No glue/ nails/ or screws just lacing

-Can be flattened for storage

-Great for a first time CNC project

-Basic tools for woodworking.

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Steps:

1- Get a panel of wood+ an elastic string (±5,5m)
(***Ligneto)*** ***(Ŝnureto)***

2- Decide which technique you're going to use:
Woodworking or CNC

3- Decide which software to use (or do without)

4- Gather the necessary tools for the technique

5- Create the indivudual boards (6 pieces)

6- Lace the boards together.

7- Use the ***Ligneto Ŝnureto*** as
a stool or storage!

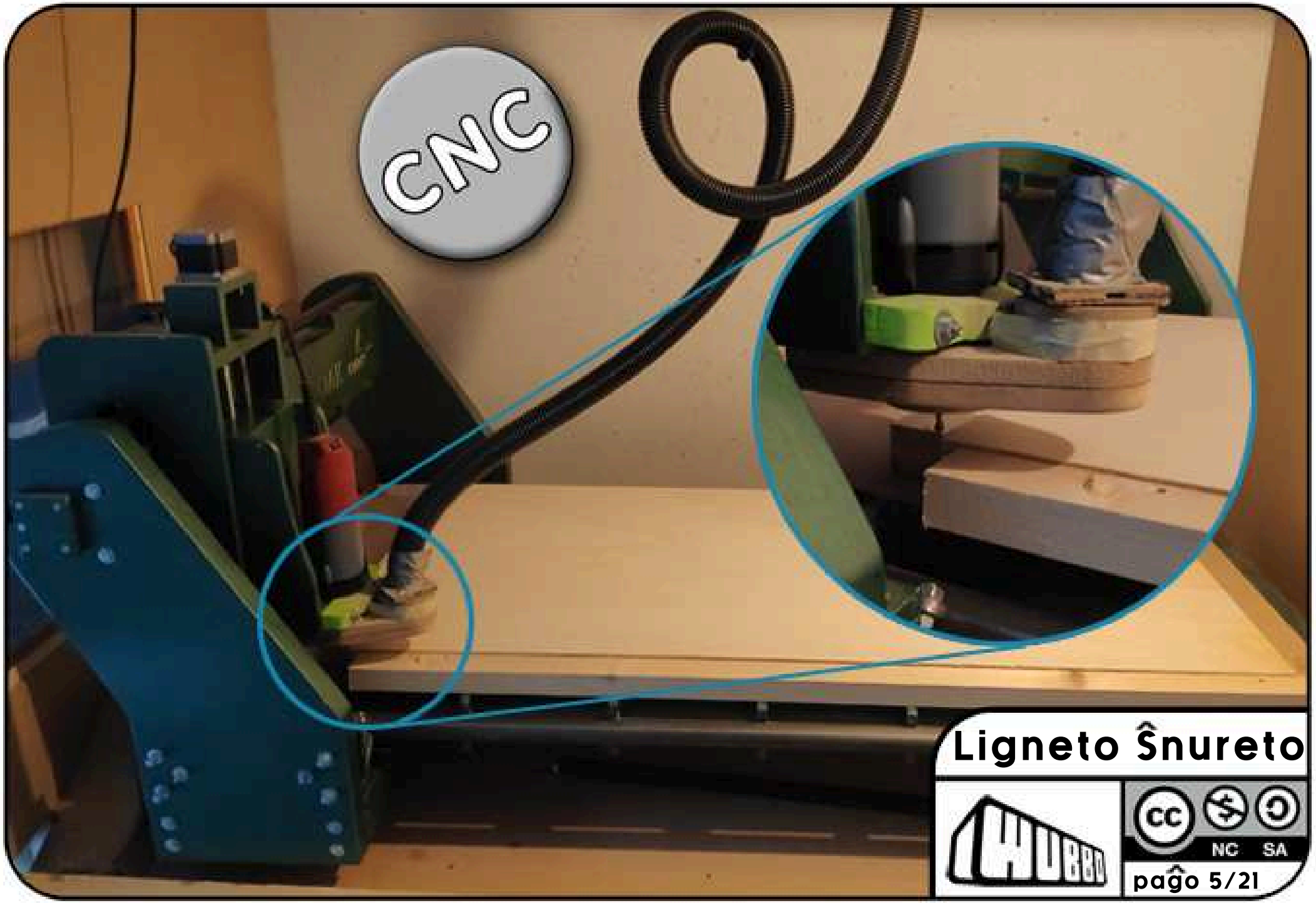
How this instruction works:

For this instruction I've choosen to do the Woodworking technique, this is best suited for most users and the CNC technique has similarities that a CNC-user could easily find to do it their own way.

I've made two software files (Fusion 360 file and a Spreadsheet) These files can be customized to your own size of panel, type of string or blade width.

You can customize this project where you think it's necessary.

All dimensions are in millimeters.



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BLACK & DECKER
Basic
Tools
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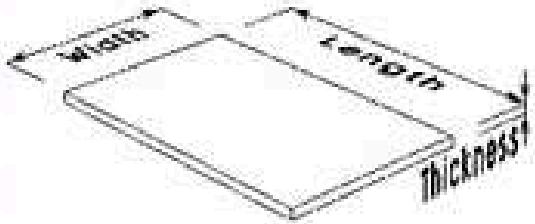
You can change these values

Input		
	Length (mm)	1200
	Width (mm)	600
	Thickness (mm)	18
	Wire Diameter (mm)	4
	Blade thickness(mm)	2,5

Starting Panel



This is how you read the numbers

Don't change these values

Output

Starting Panel

Cut 1: 300

Make this cut first

All dimensions in (mm)

color for first cuts | color for holes | color for cuts

Cut 2A 344 | Cut 2B 681

1 | 3

2 | 4

Reference point

Cut 3A 354 | Cut 3B 681

Centerline holes (8x) 299 | (7x) Horizontal Spacing Holes 19 | 43

What software to use: Fusion 360 or Spreadsheet

In the spreadsheet you can change the values

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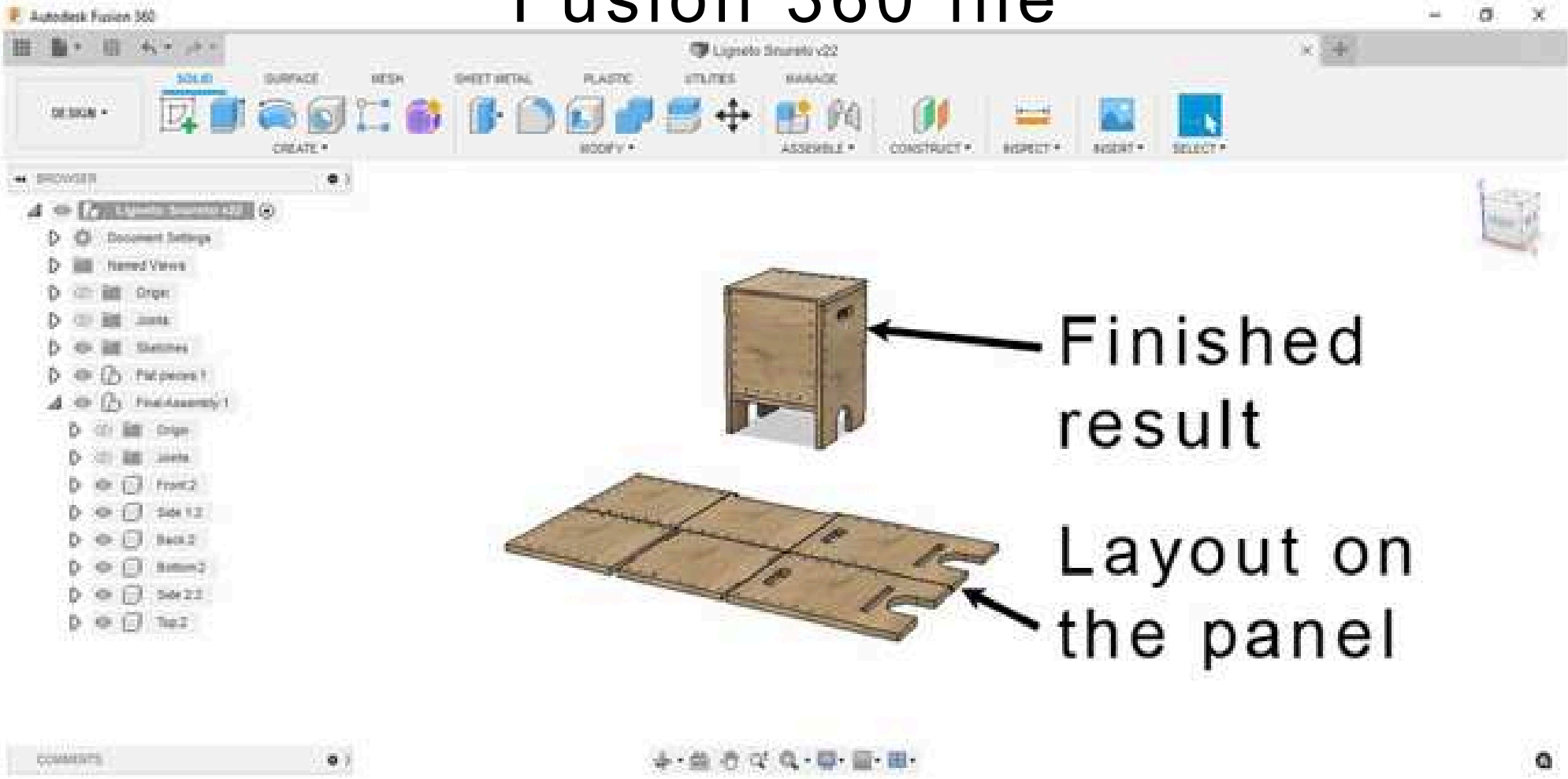
Fusion 360 file



Which software to use: Fusion 360 or Spreadsheet

You can change the parameters.
So the dimensions match
the size of your own panel

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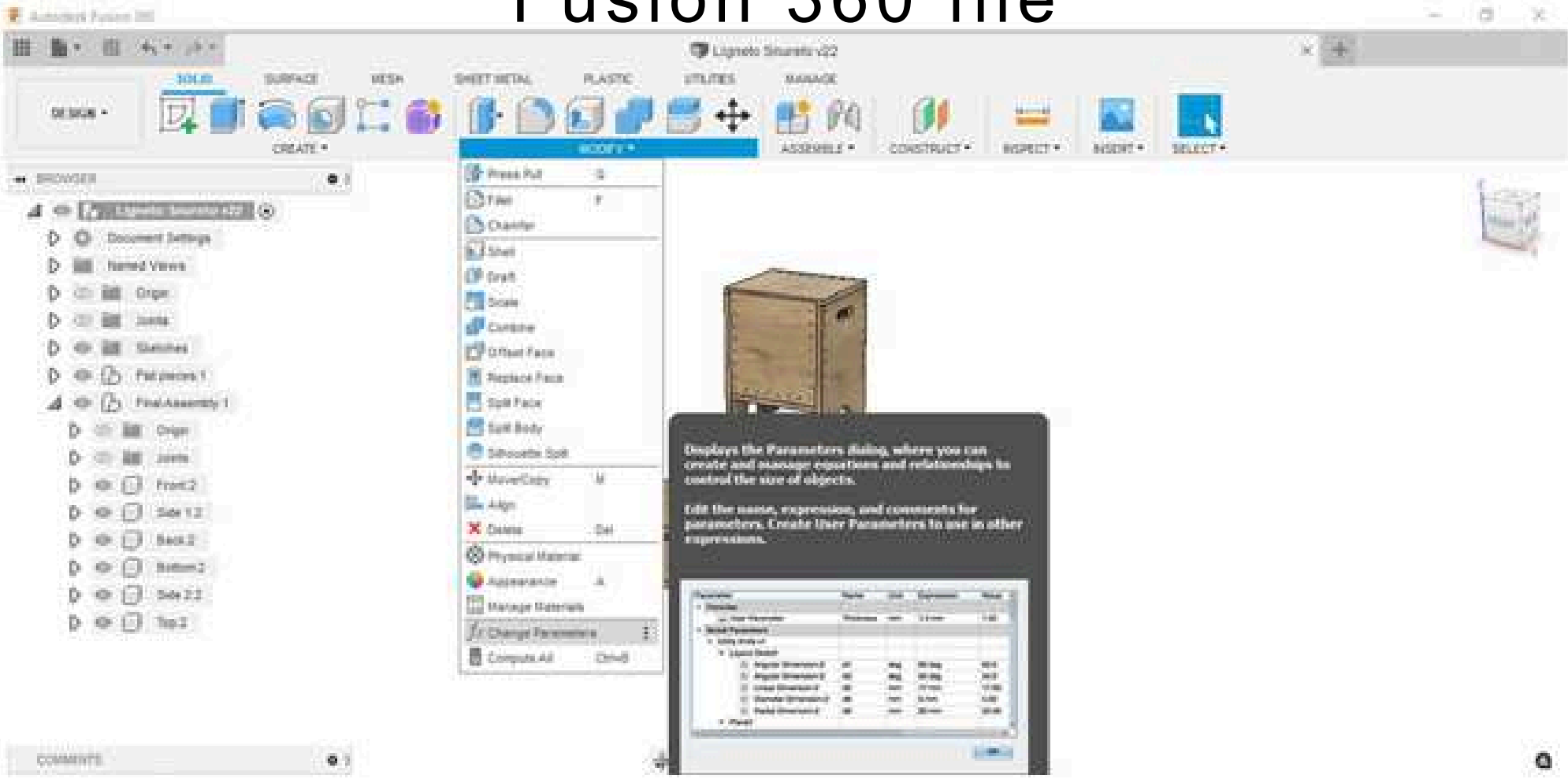
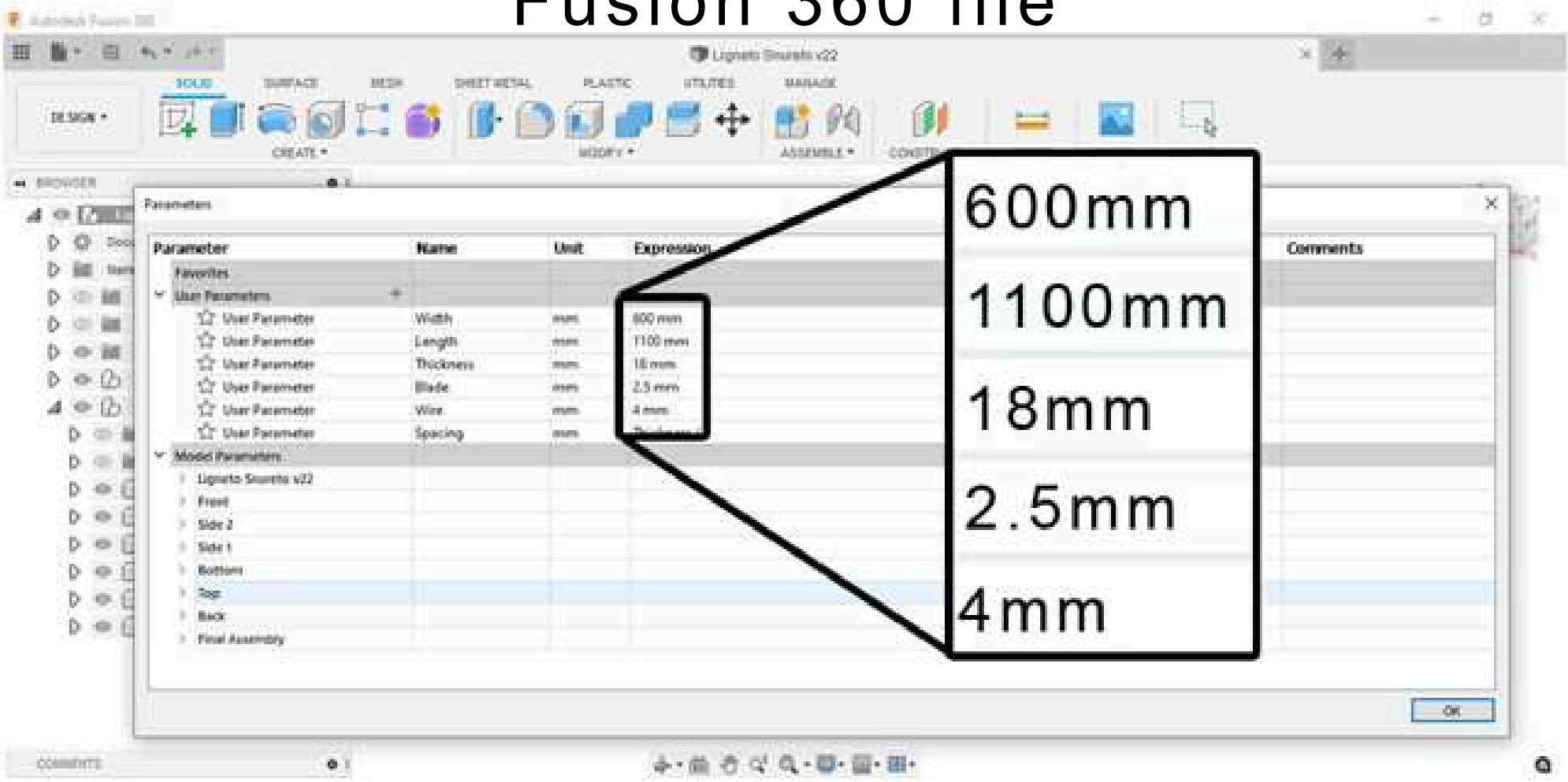
Fusion 360 file



Which software to use: Fusion 360 or Spreadsheet

This is the menu where you can change the parameters.

Fusion 360 file



Which software to use: Fusion 360 or Spreadsheet

You can change
these values

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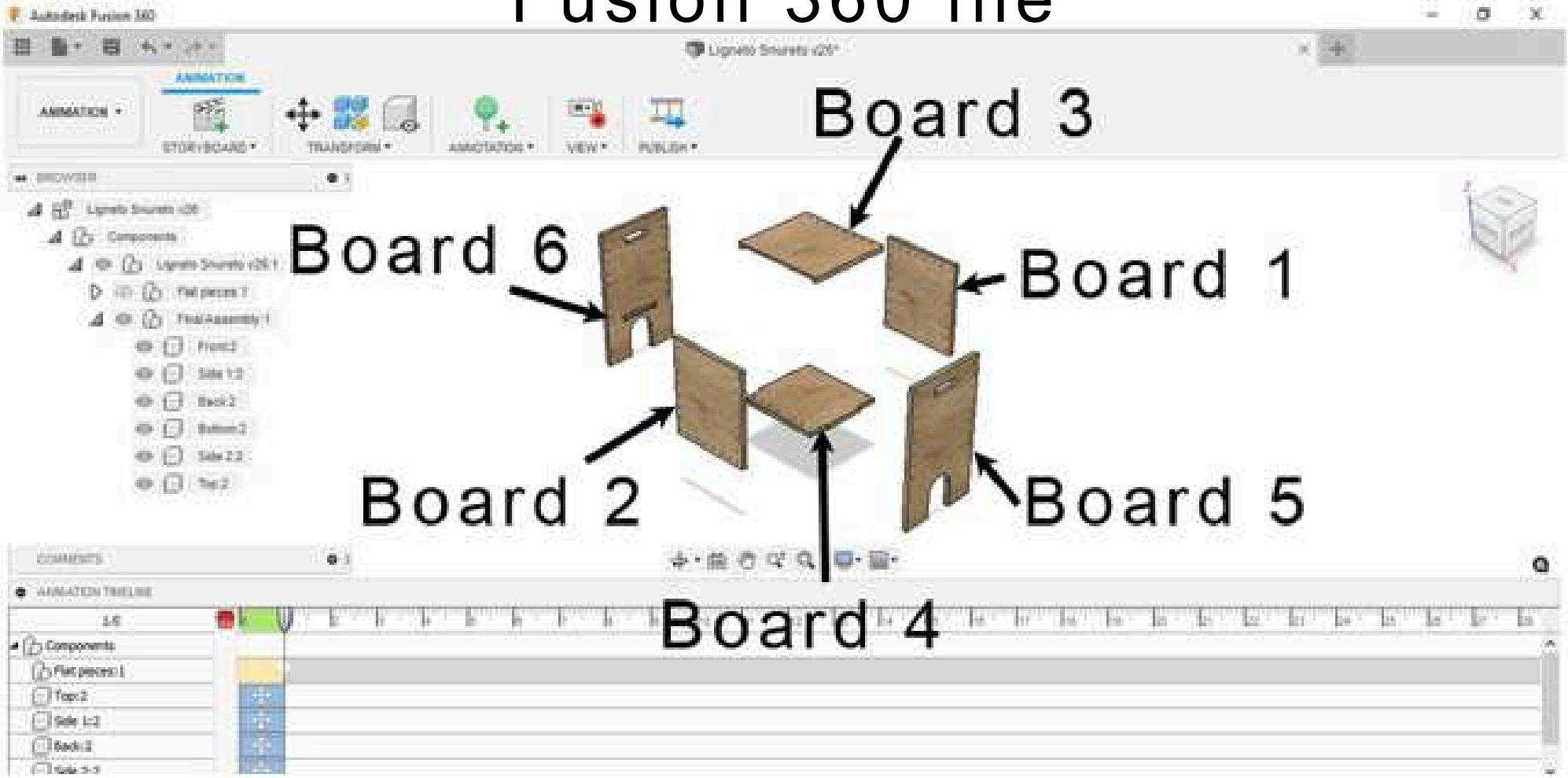
Fusion 360 file

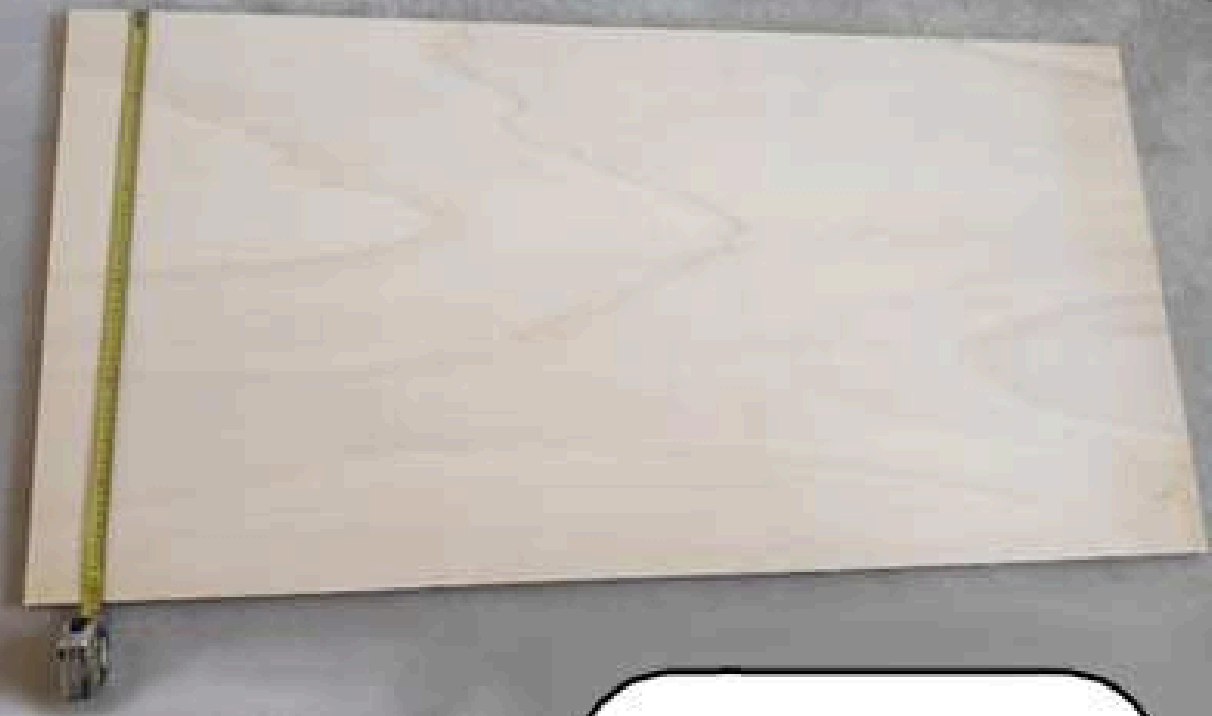


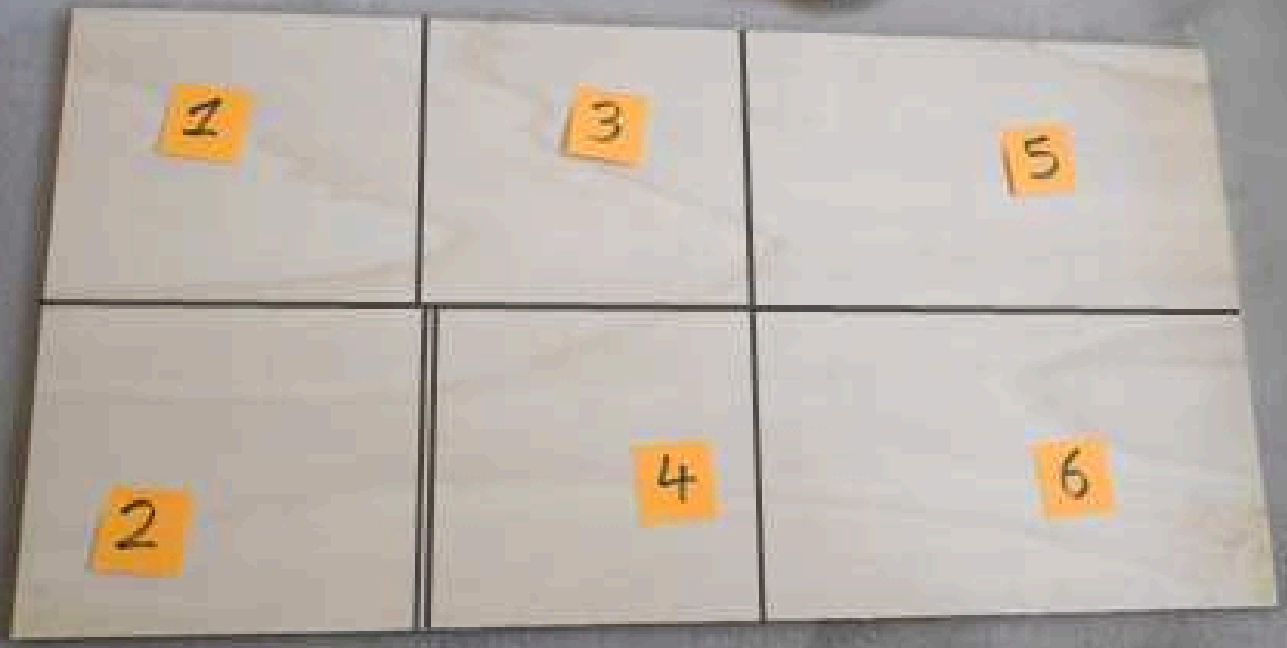
Which software to use: Fusion 360 or Spreadsheet

These are the
6 boards

WW

Use the Software to insert the dimensions of the panel.





Mark out the cutting lines on the panel

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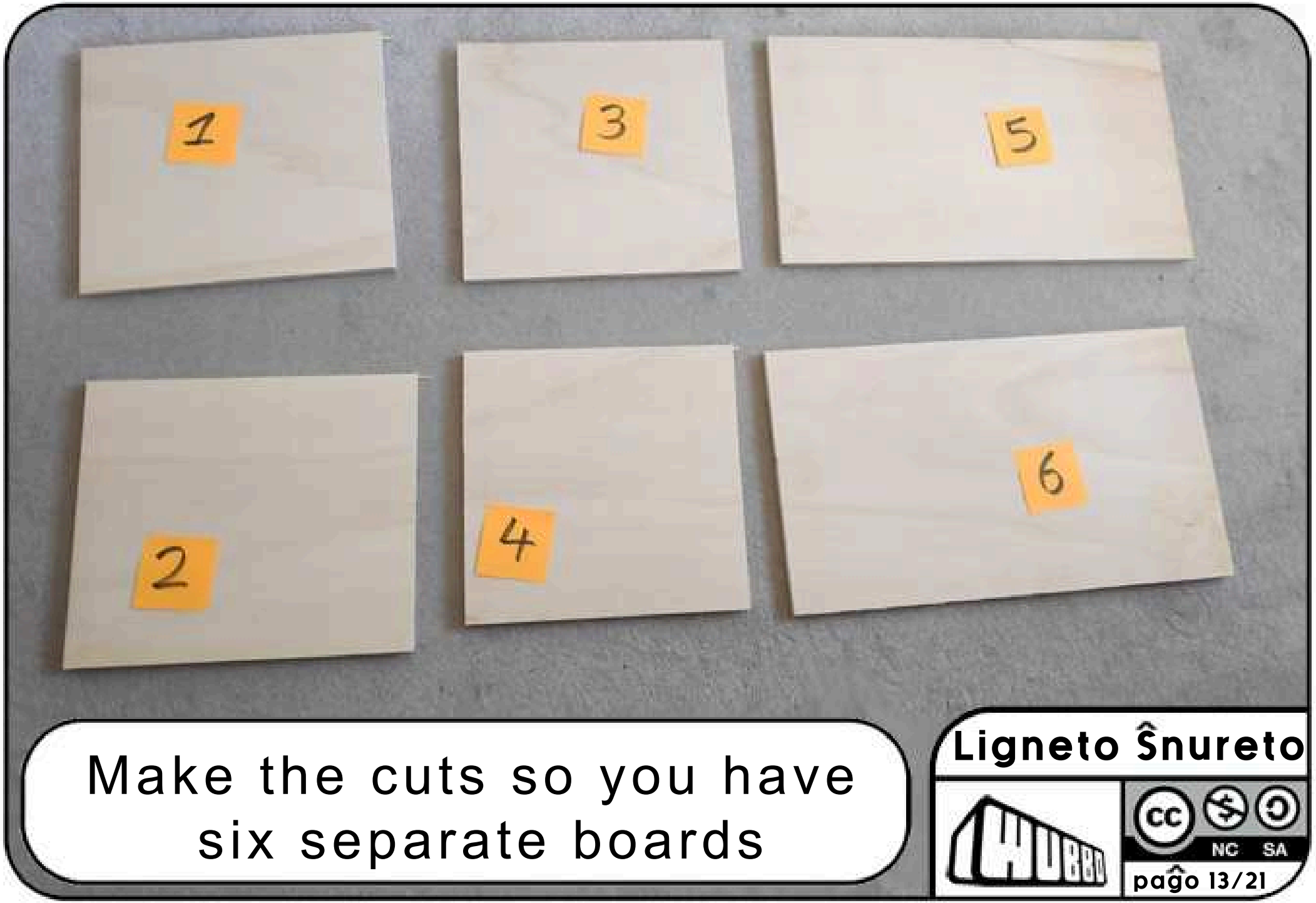

Make the cuts so you have six separate boards

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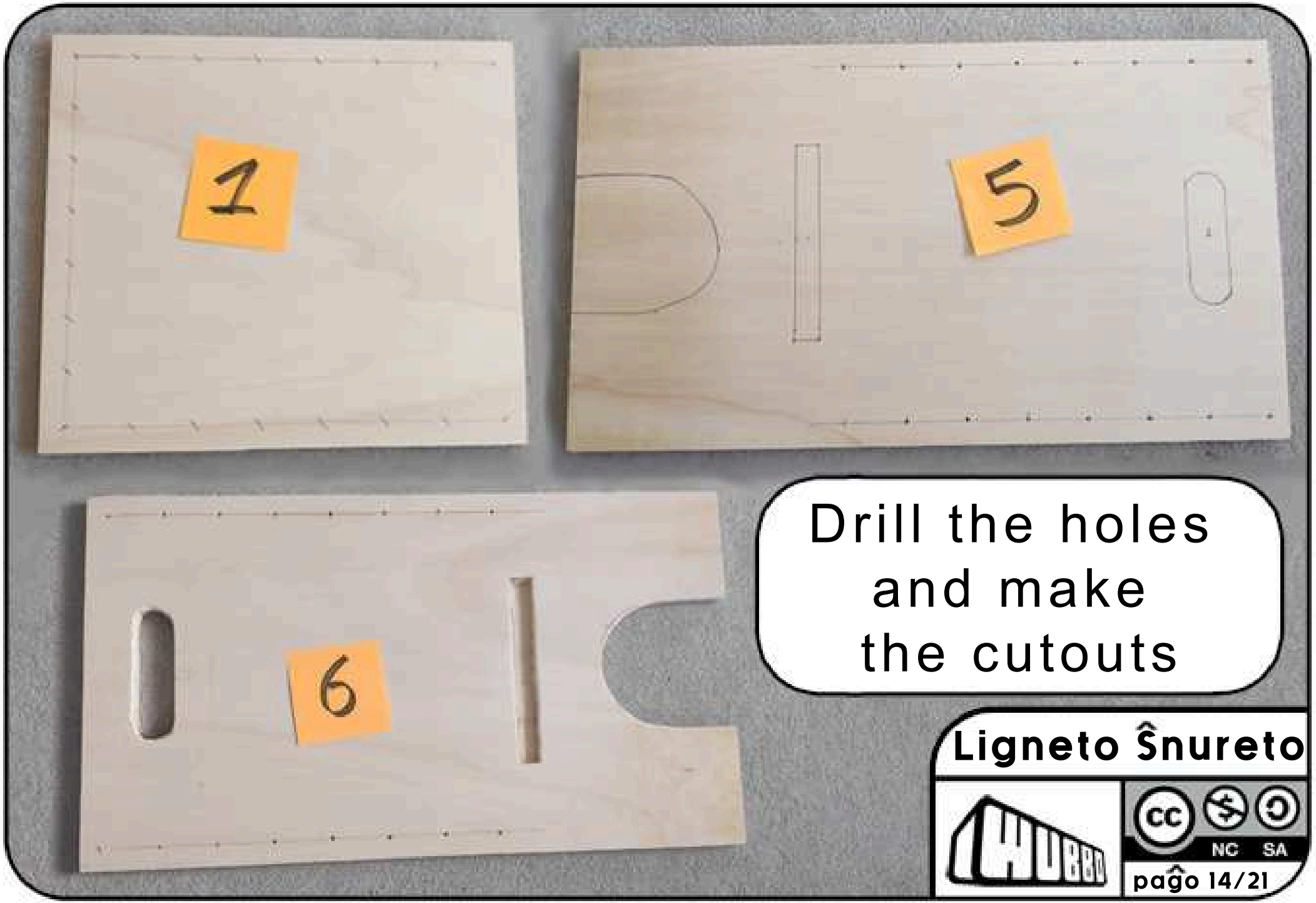
1
5
6
Drill the holes
and make
the cutouts
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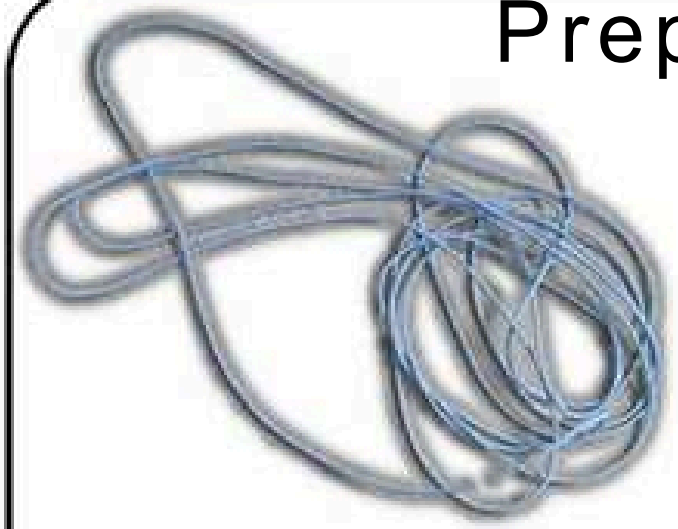
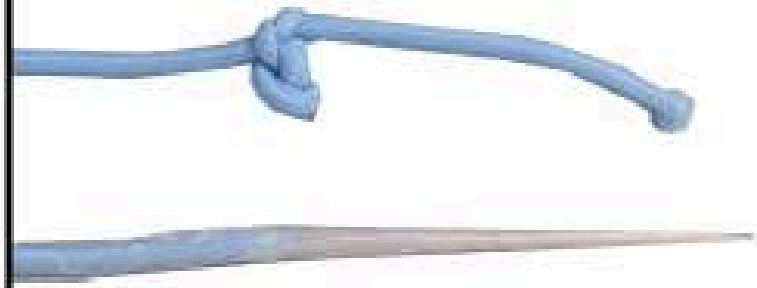
Prepare for lacing



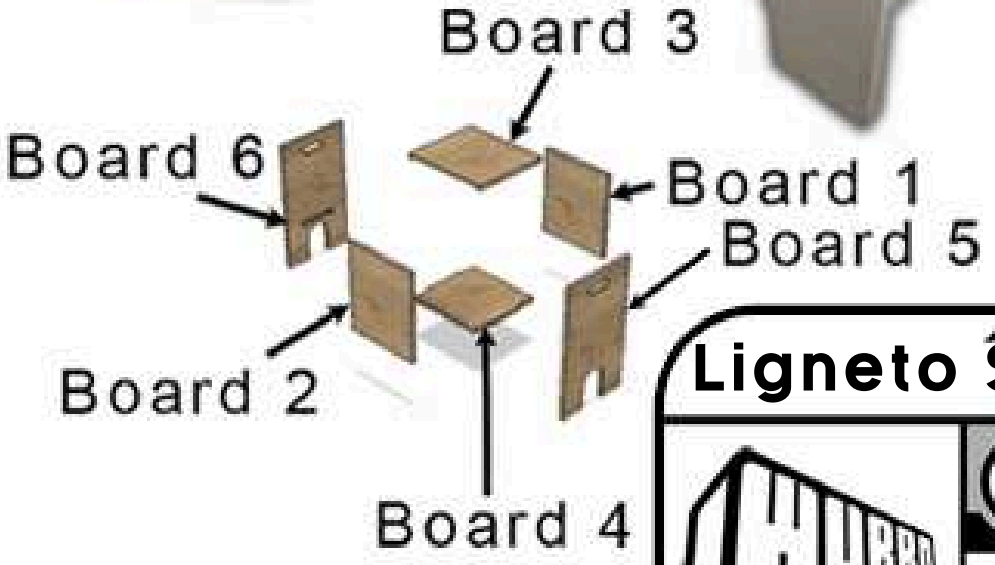
Use an elastic string
(approx. 5,5 - 6m)
for the lacing

Soft assemble
the stool with
masking tape
or a thin wire.

Make a tick knot
at one end



Make a ‘needle’ at the other
with a toothpick and tape.



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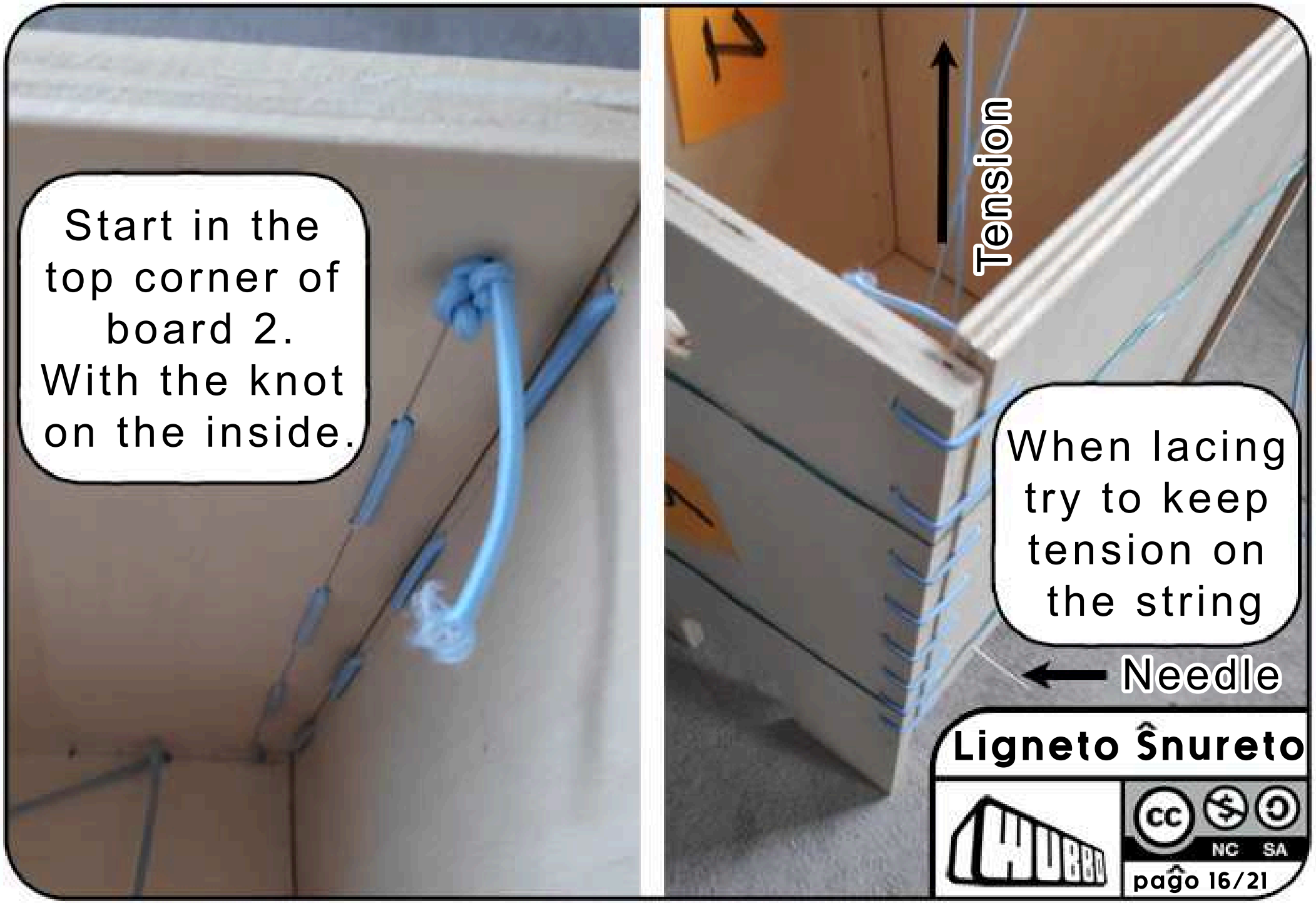
Start in the top corner of board 2. With the knot on the inside.
Tension
When lacing try to keep tension on the string
Needle
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Continue lacing on bottom
When you're done on one side make a diagonal crossing to the next side
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When lacing the lid keep it in the upright position
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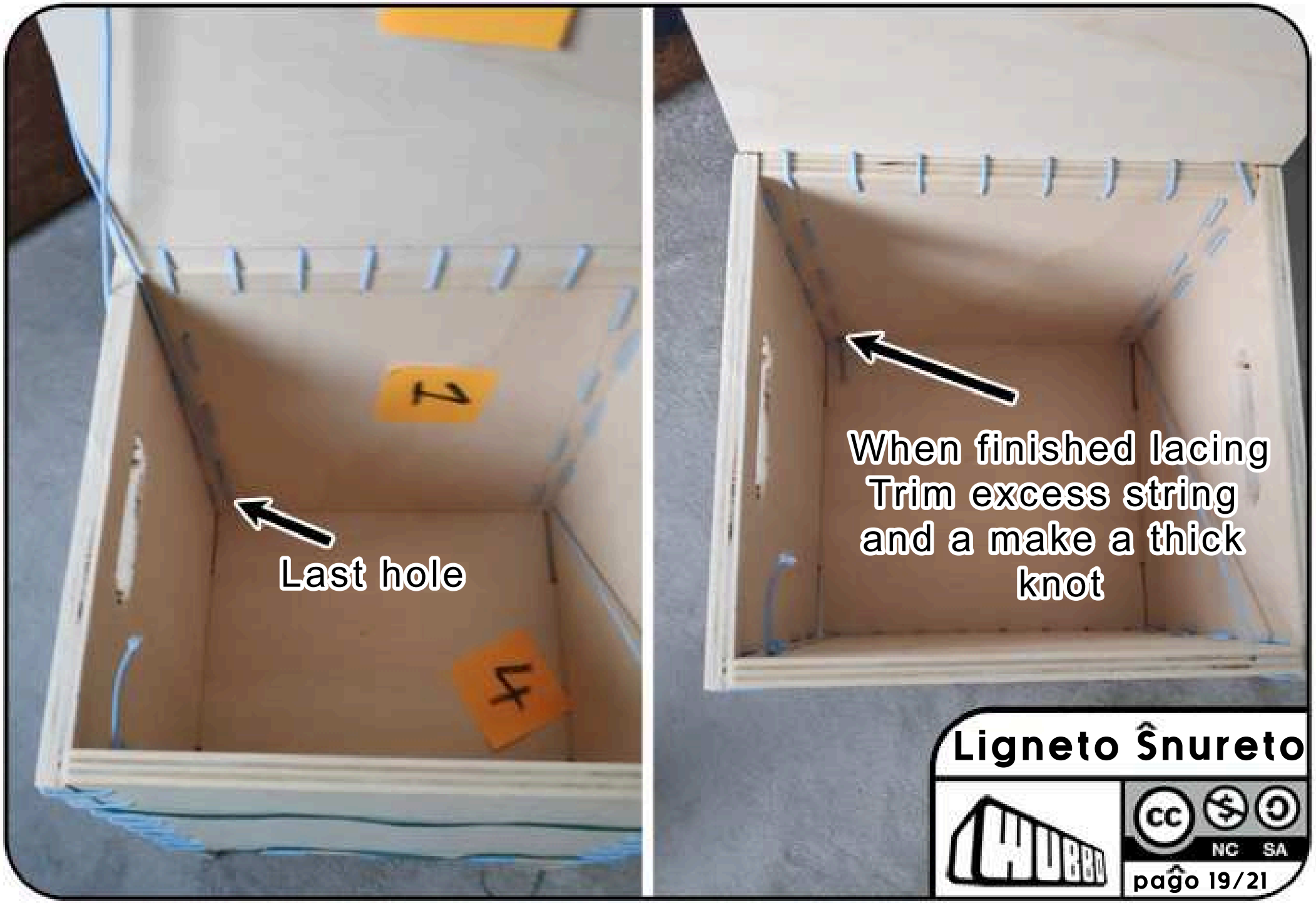
Last hole
When finished lacing
Trim excess string
and a make a thick
knot
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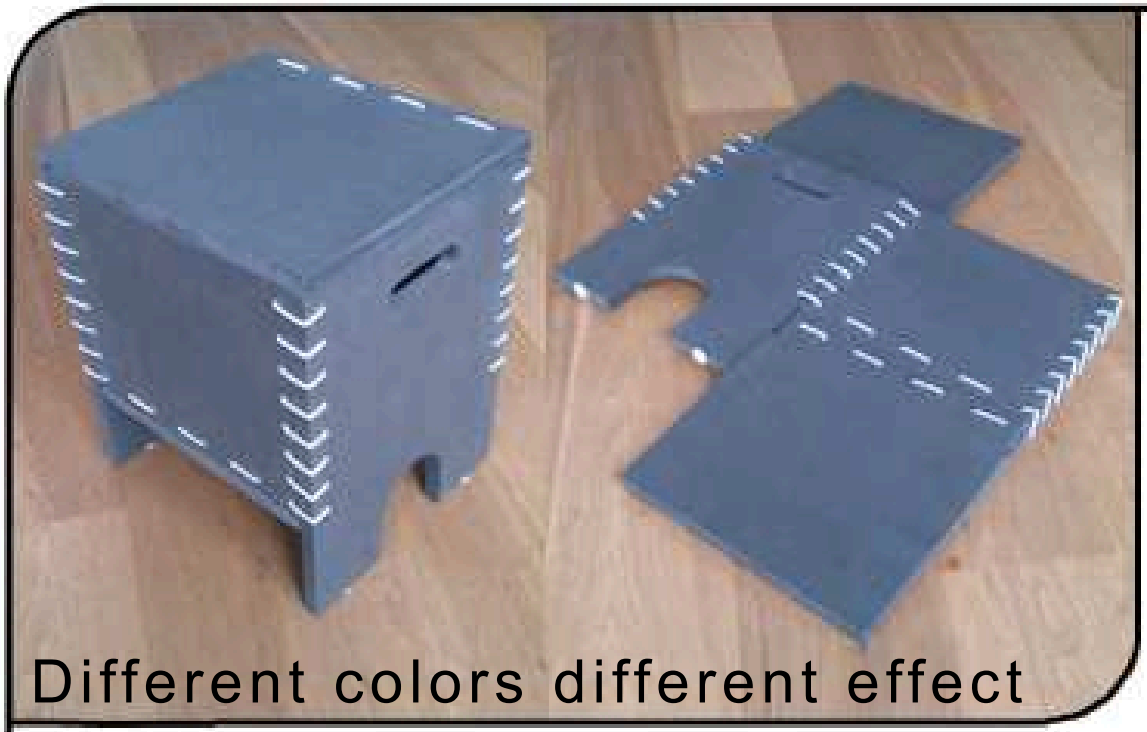
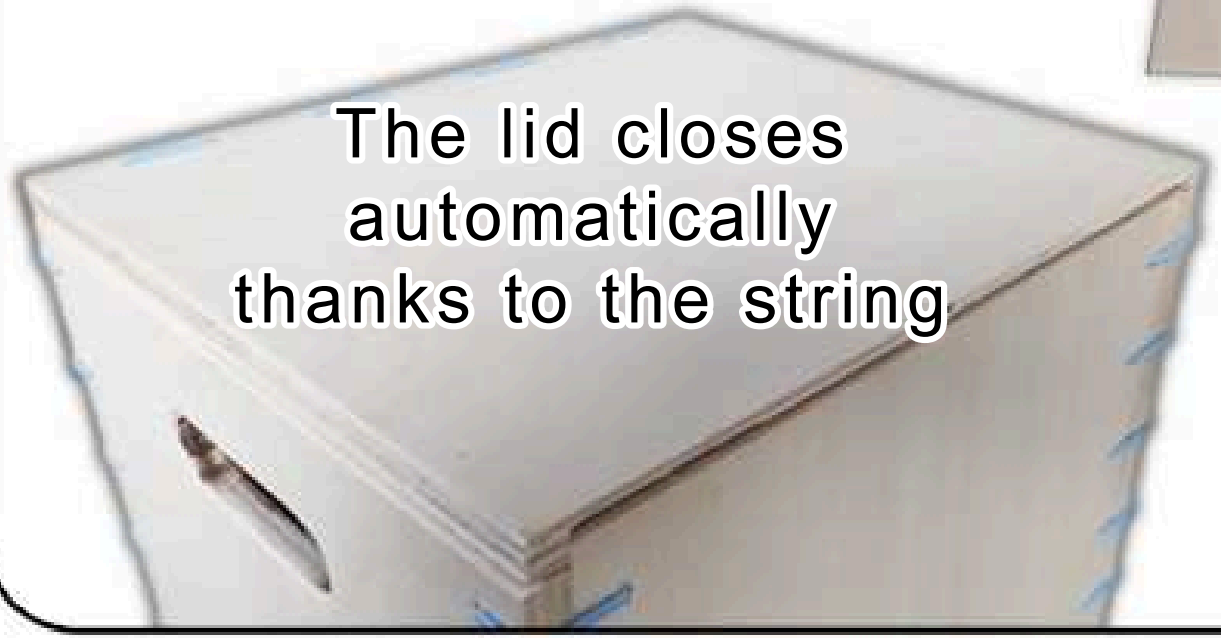


Different colors different effect

You can store it flat. And it will automaticlly ‘pop’ back into shape



The lid closes automatically thanks to the string

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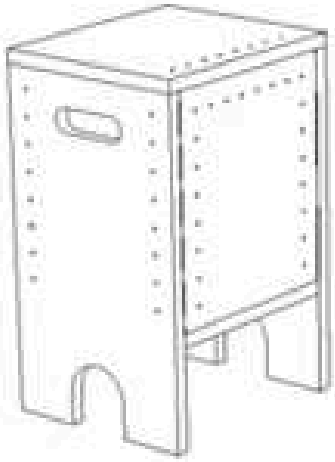

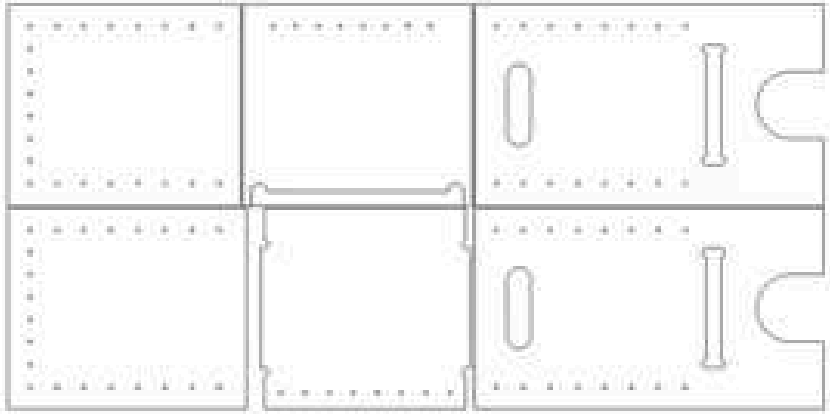

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