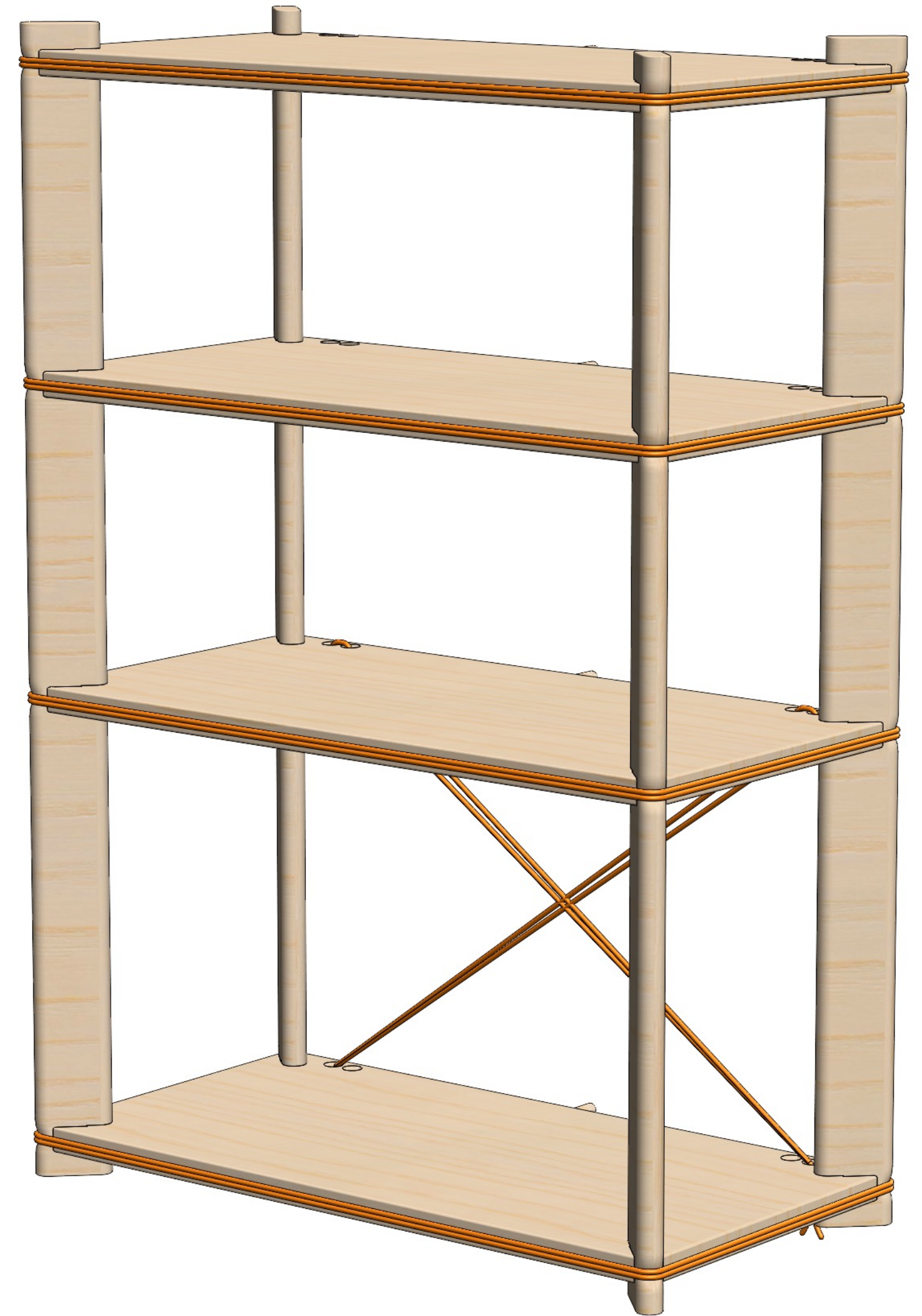


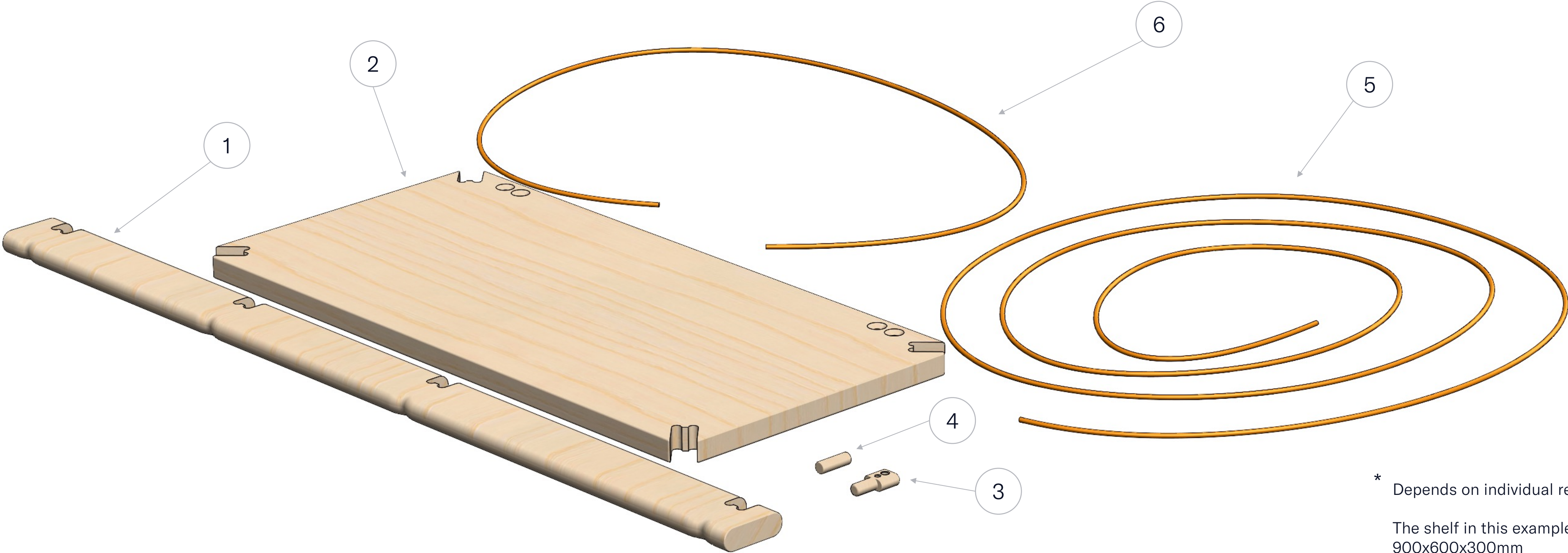
Assembly Guideline

1. Parts overview
2. Tools needed
3. Preparing the parts
4. Step by step assembly guideline



1. Parts Overview

No.	Name	Amount
1	Post	4
2	Board	4 [*]
3	Plug	4
4	Dowel	2
5	Rope 3900mm [*] for horizontal tensioning	4
6	Rope 1400mm [*] for diagonal tensioning	2



^{*} Depends on individual requirements.

The shelf in this example is HxWxD:
900x600x300mm

2. Tools needed



Scissor for cutting the rope and a lighter for melting the ends of the ropes to avoid fraying.



Sanding paper for smoothening all wooden parts.



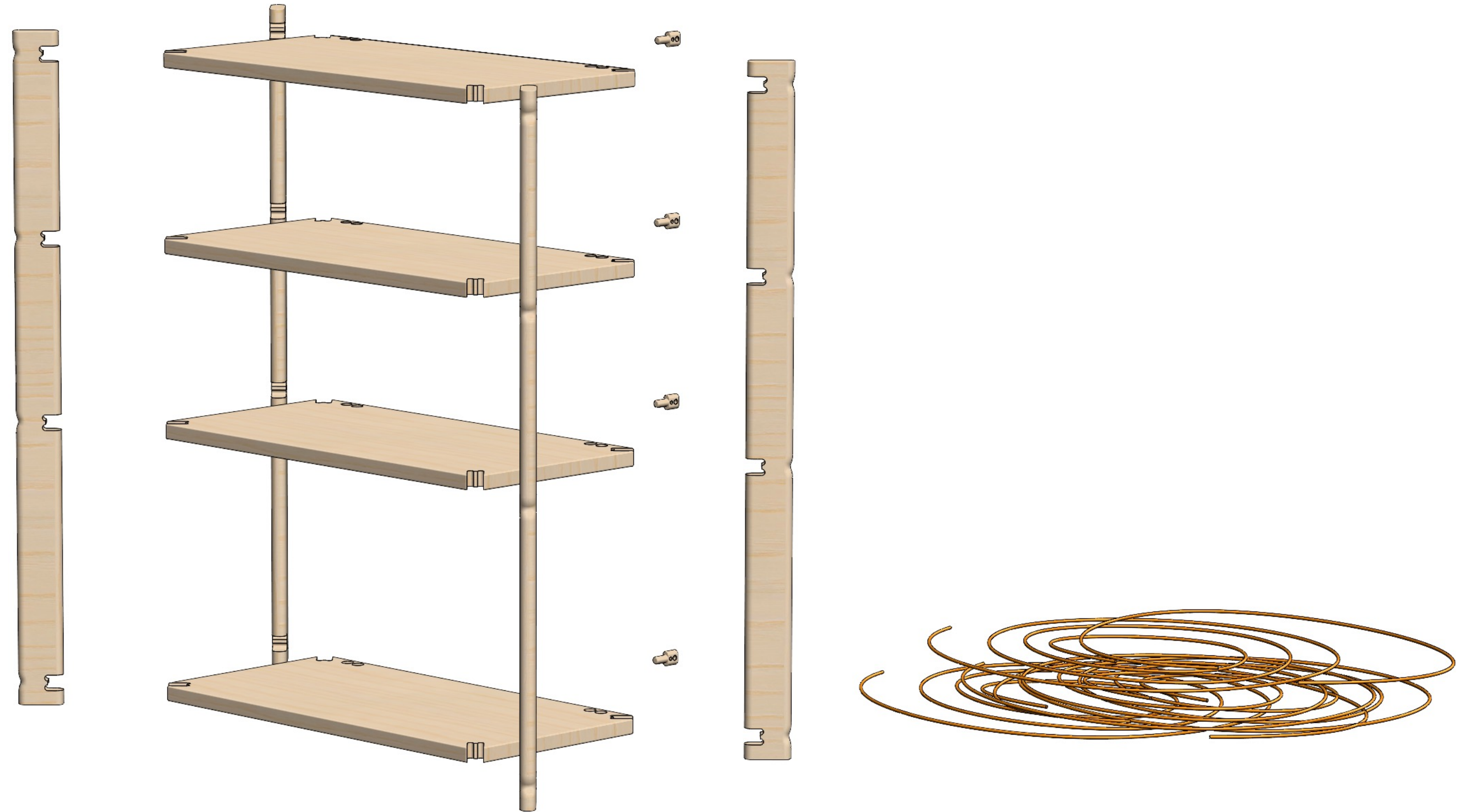
Milling table with a 10mm radius milling bit to create the round edges of the posts.



Drill and drill bits in sizes 10mm, 8mm, 6mm, 4mm. These are for the holes in the bottom boards for the diagonal bracing, for the holes on the back of the boards for inserting the dowels and for the holes in the dowels themselves.

3. Preparing the parts

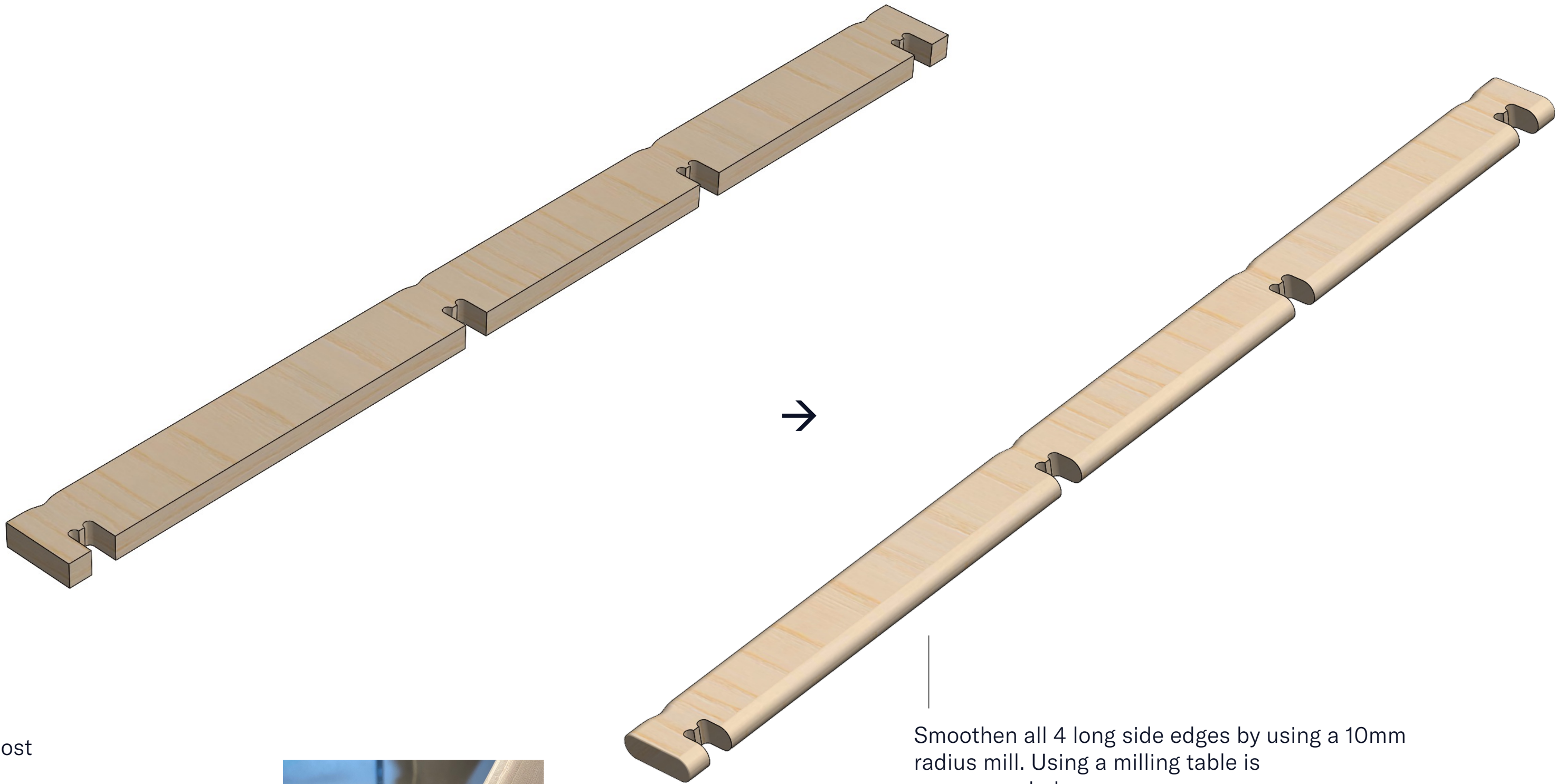
1. Treatment of the wooden parts
2. Preparing the ropes



1. Treatment of the milled parts



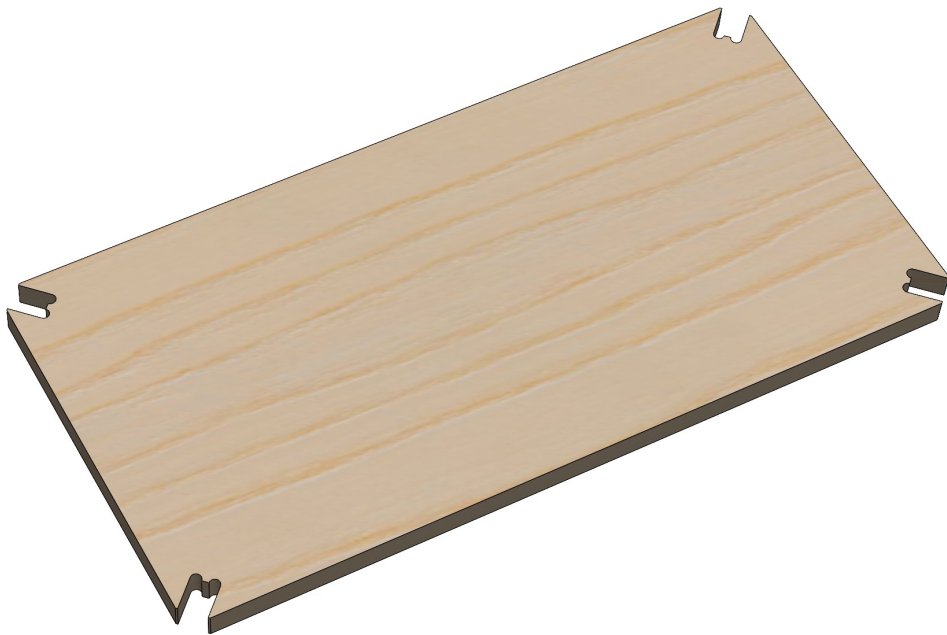
CNC-milled post



Smoothen all 4 long side edges by using a 10mm radius mill. Using a milling table is recommended.



1. Treatment of the milled parts

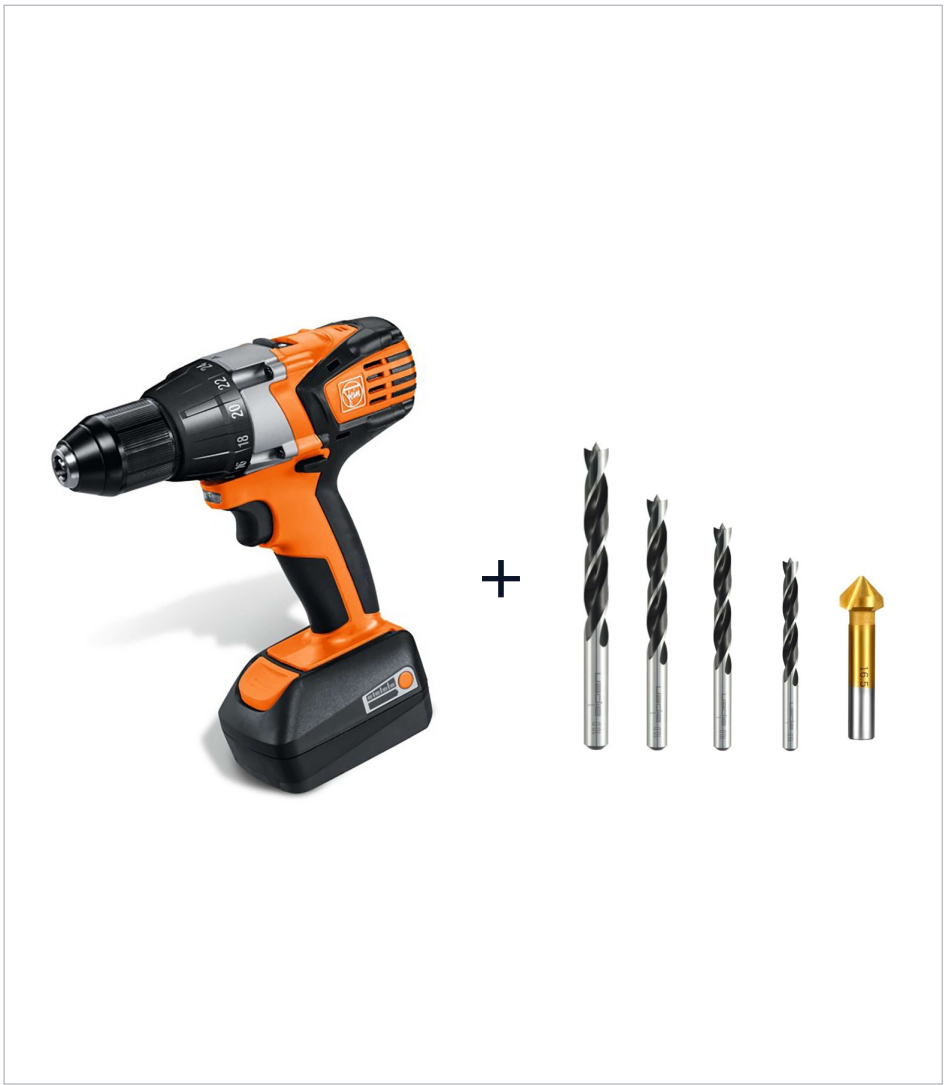


CNC-milled board

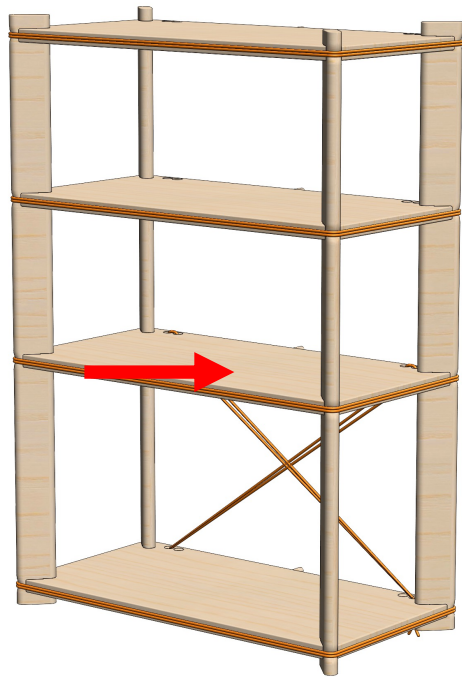


Smoother all edges

Drilling a hole in the middle of the backside of each board. Diameter: 10mm, 20mm deep.

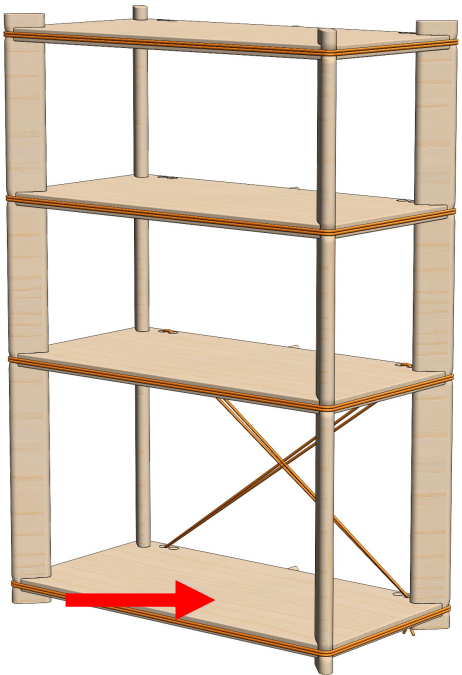


Drilling 4 holes of 6mm diameter like shown in the second lowest board. These are for the diagonal tensioning. Chamfer the edges.

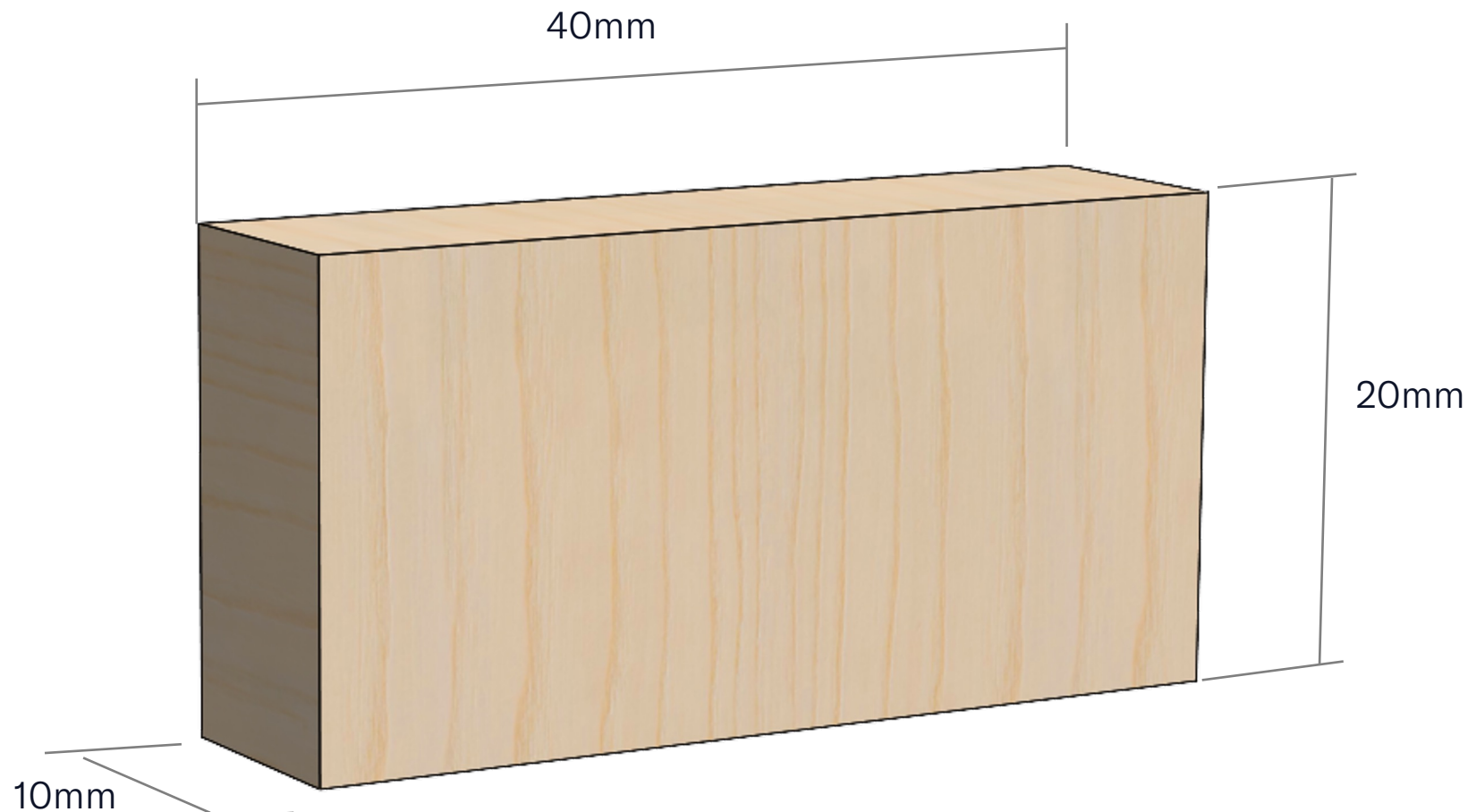
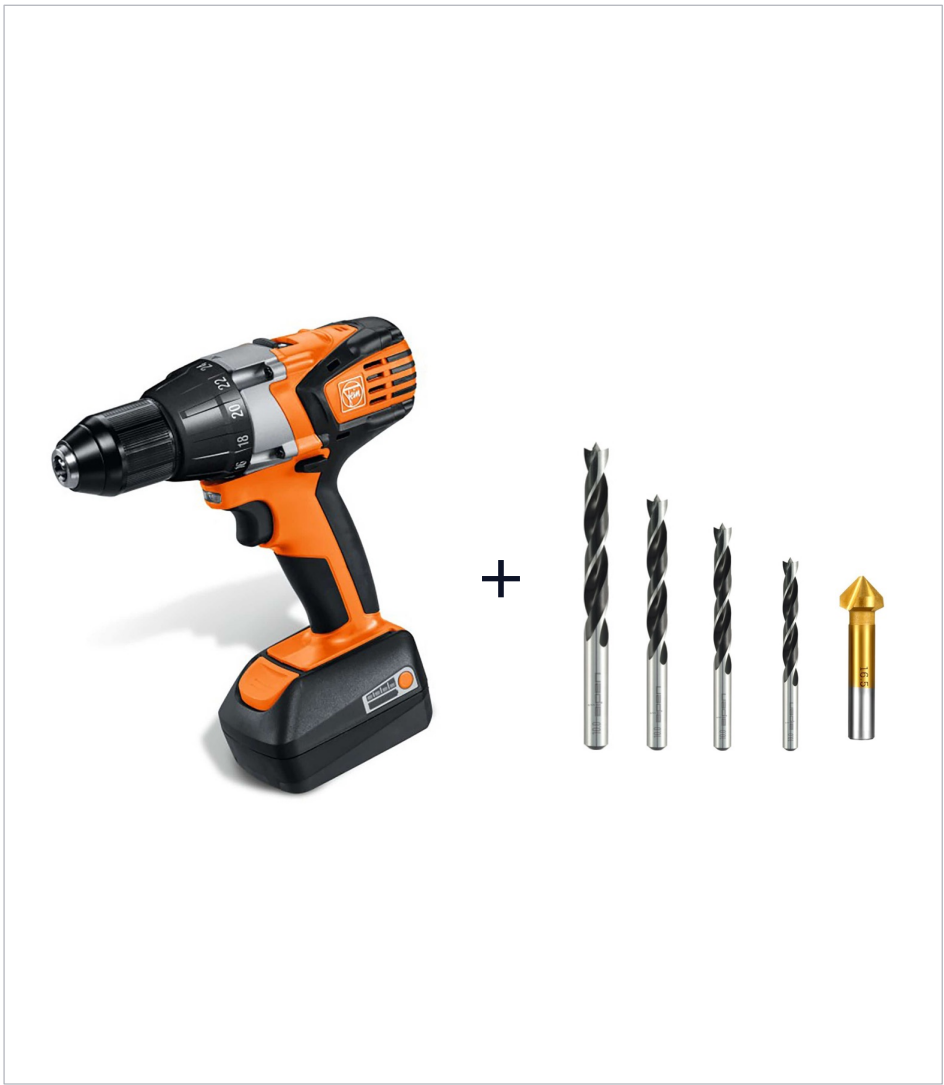


Drilling 2 holes of 8mm diameter like shown in the lowest board. These are for the horizontal tensioning. Chamfer the edges.

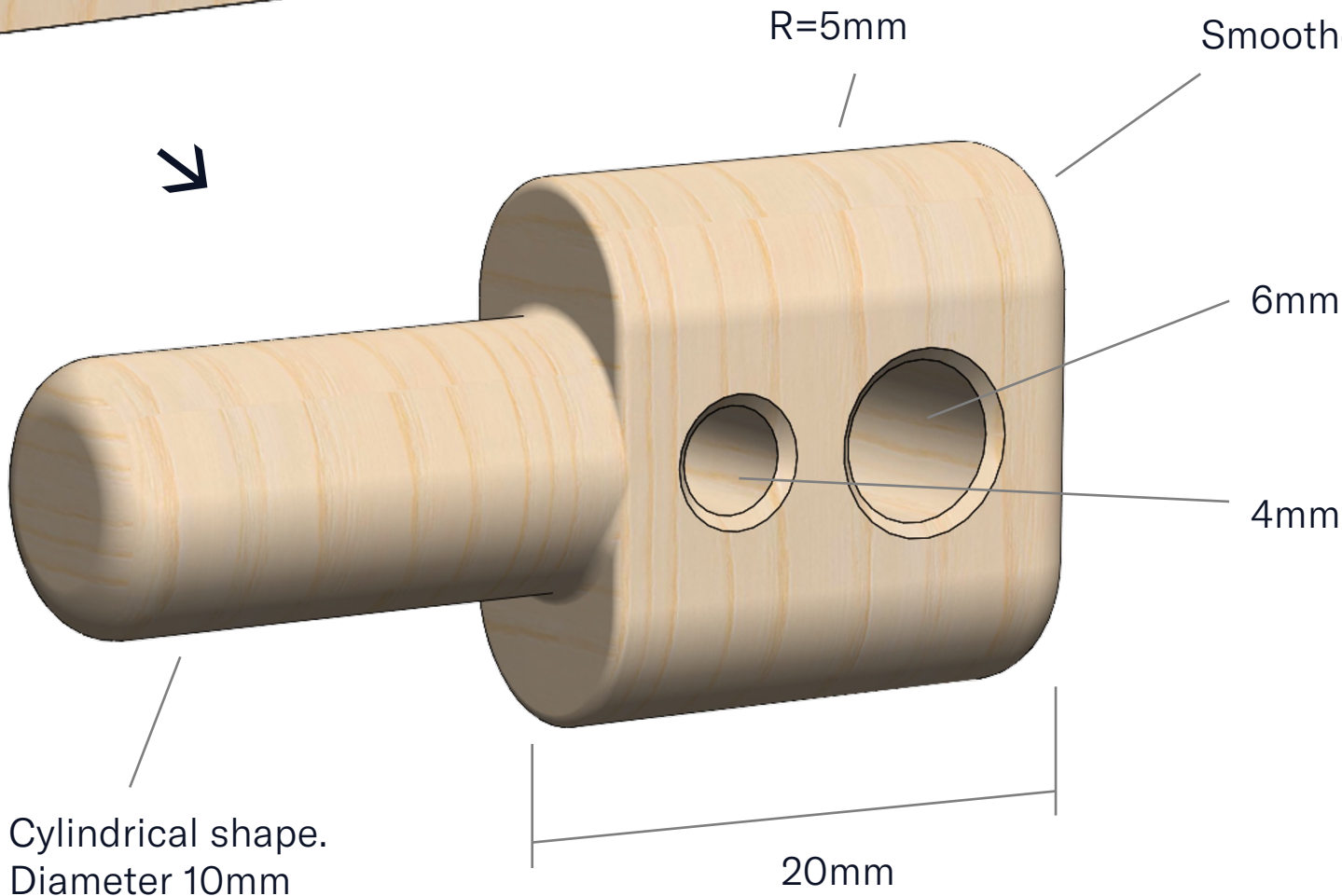
Sanding all boards.



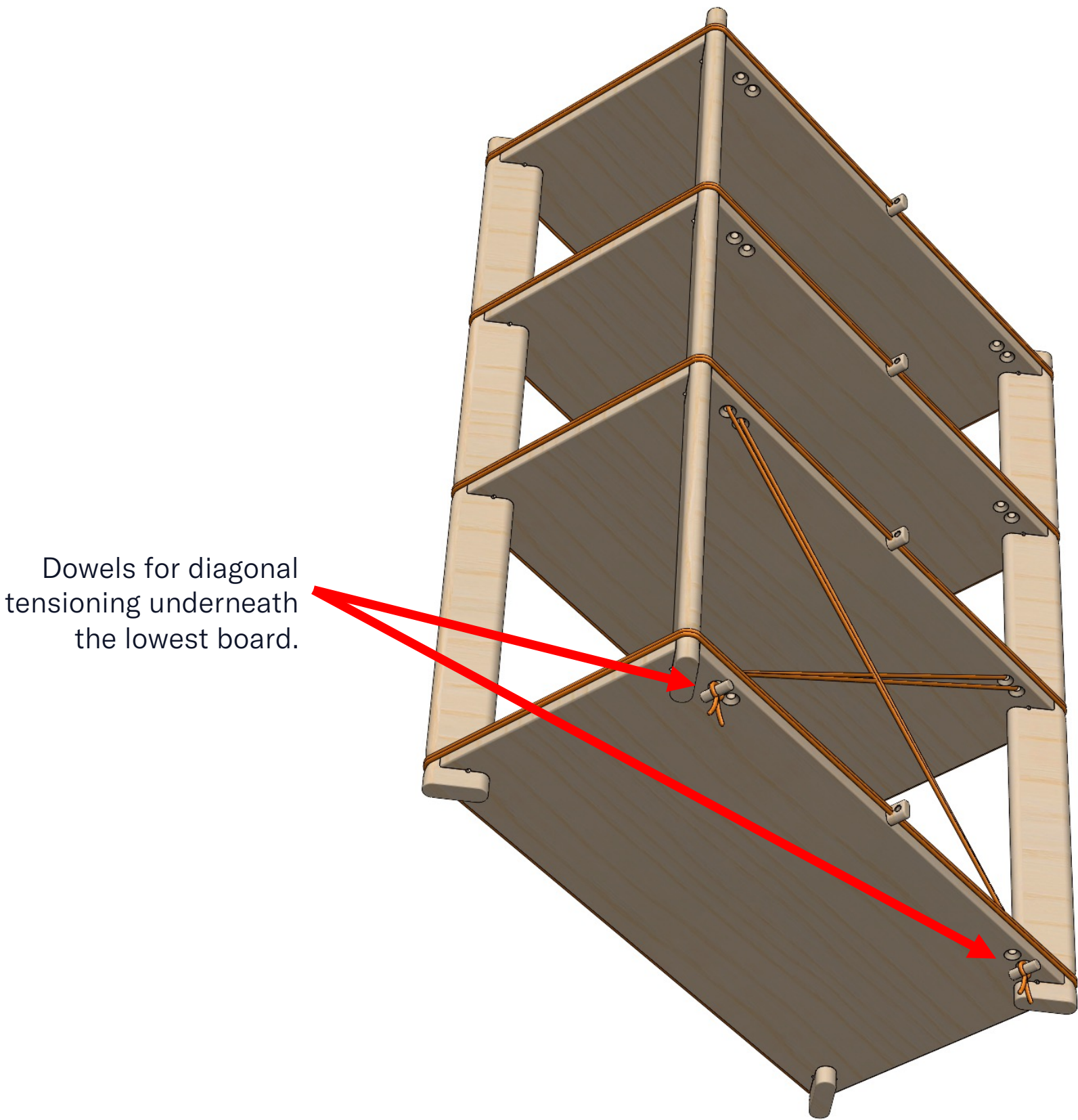
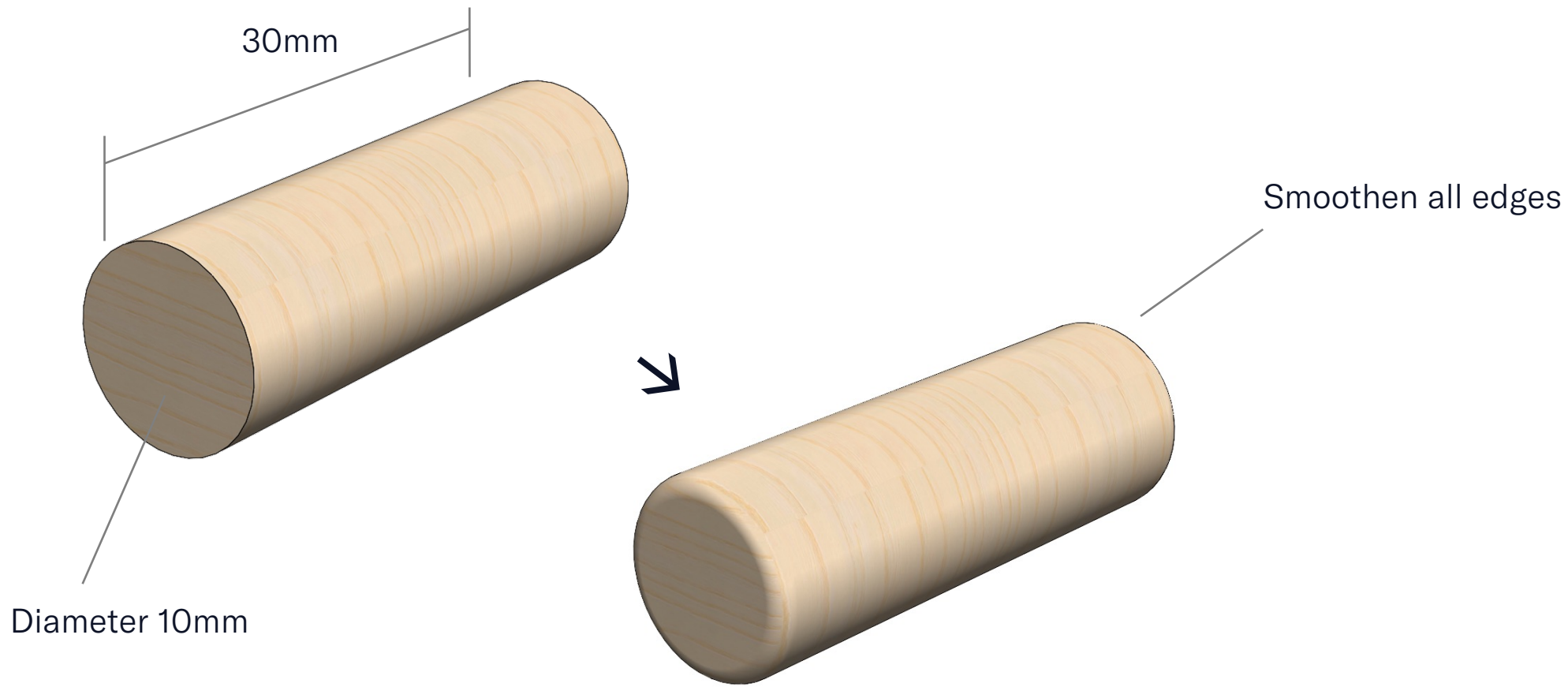
1. Treatment dowels



4x



1. Treatment dowels



2. Preparing the ropes



Paracord, **4mm** diameter.

Cutting off suitable lengths.
One for each board and two for the diagonal tensioning.

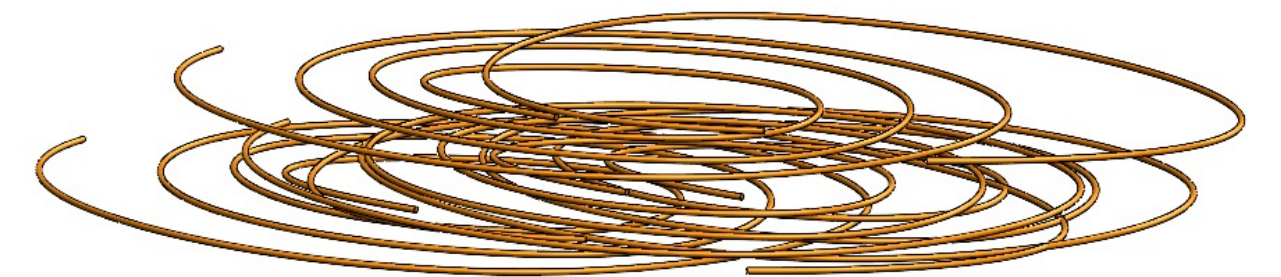
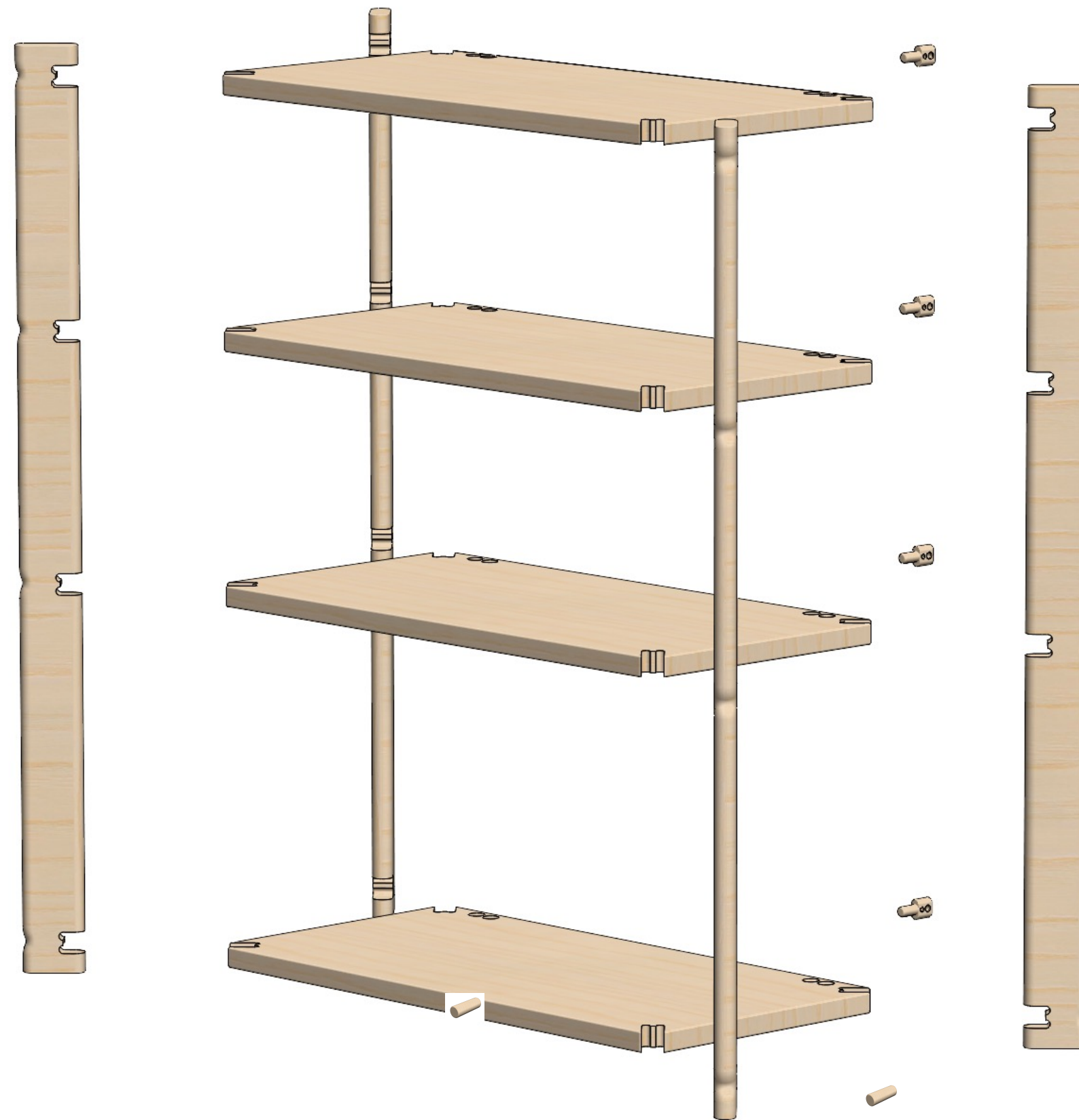
In this example (the shelf has the dimension in mm: HxWxD:
900x600x300) we need

- for the horizontal tensioning: **3900mm**
- for the diagonal tensioning: **1400mm**

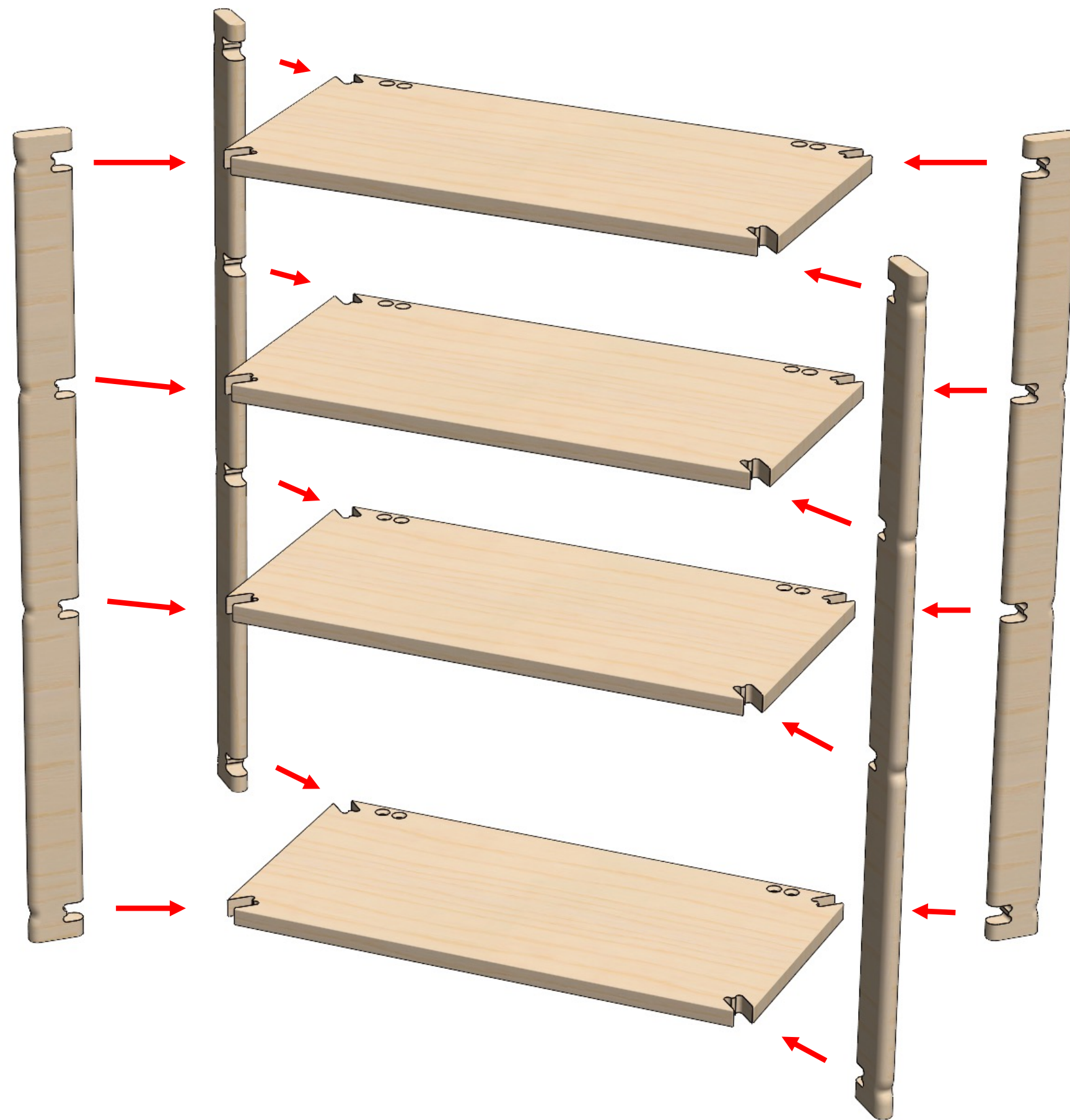
Melt the ends to avoid fraying.

4. Step by step assembly guideline

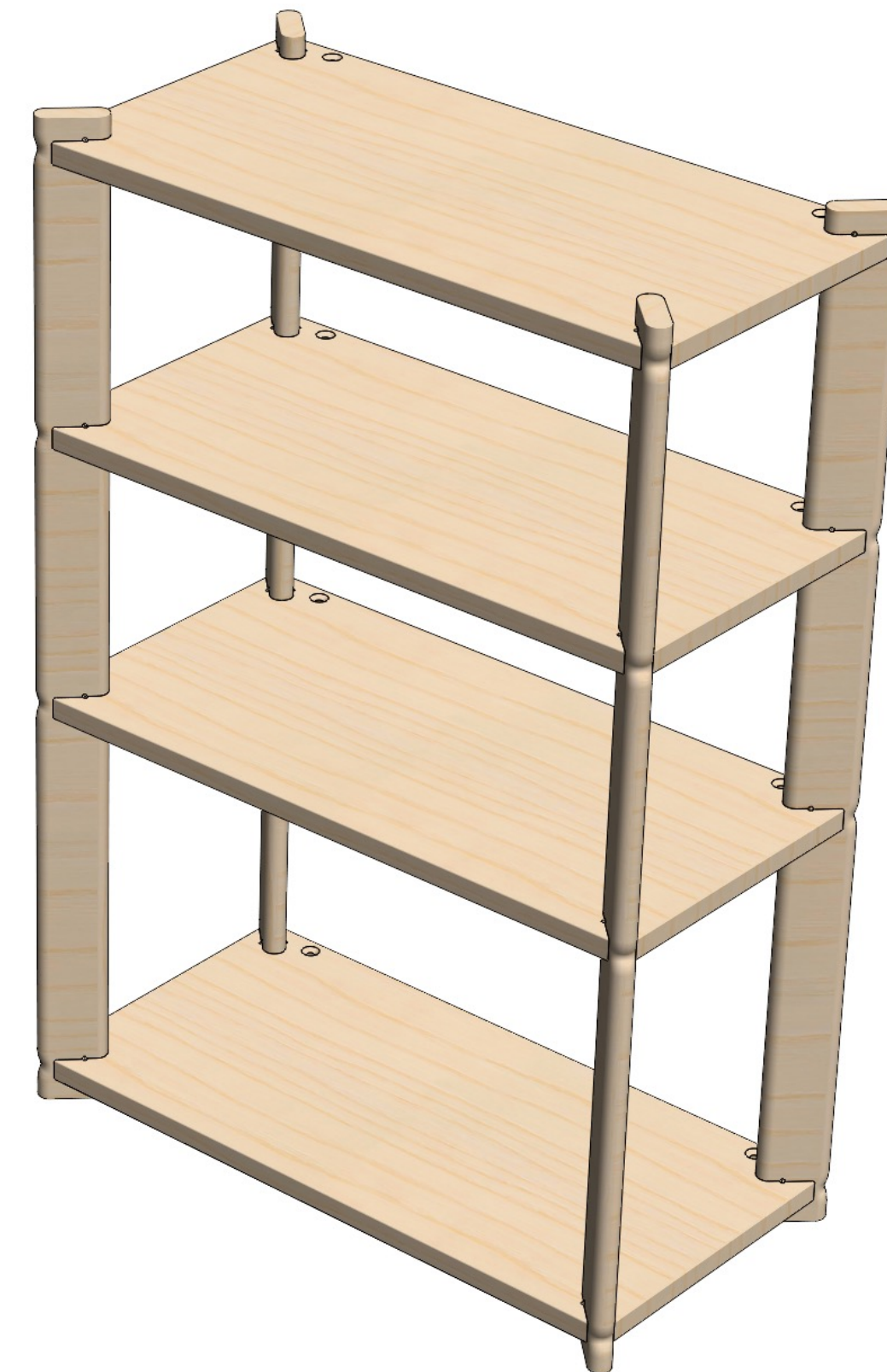
1. Sticking together the posts and boards
2. Horizontal tensioning
3. Diagonal tensioning



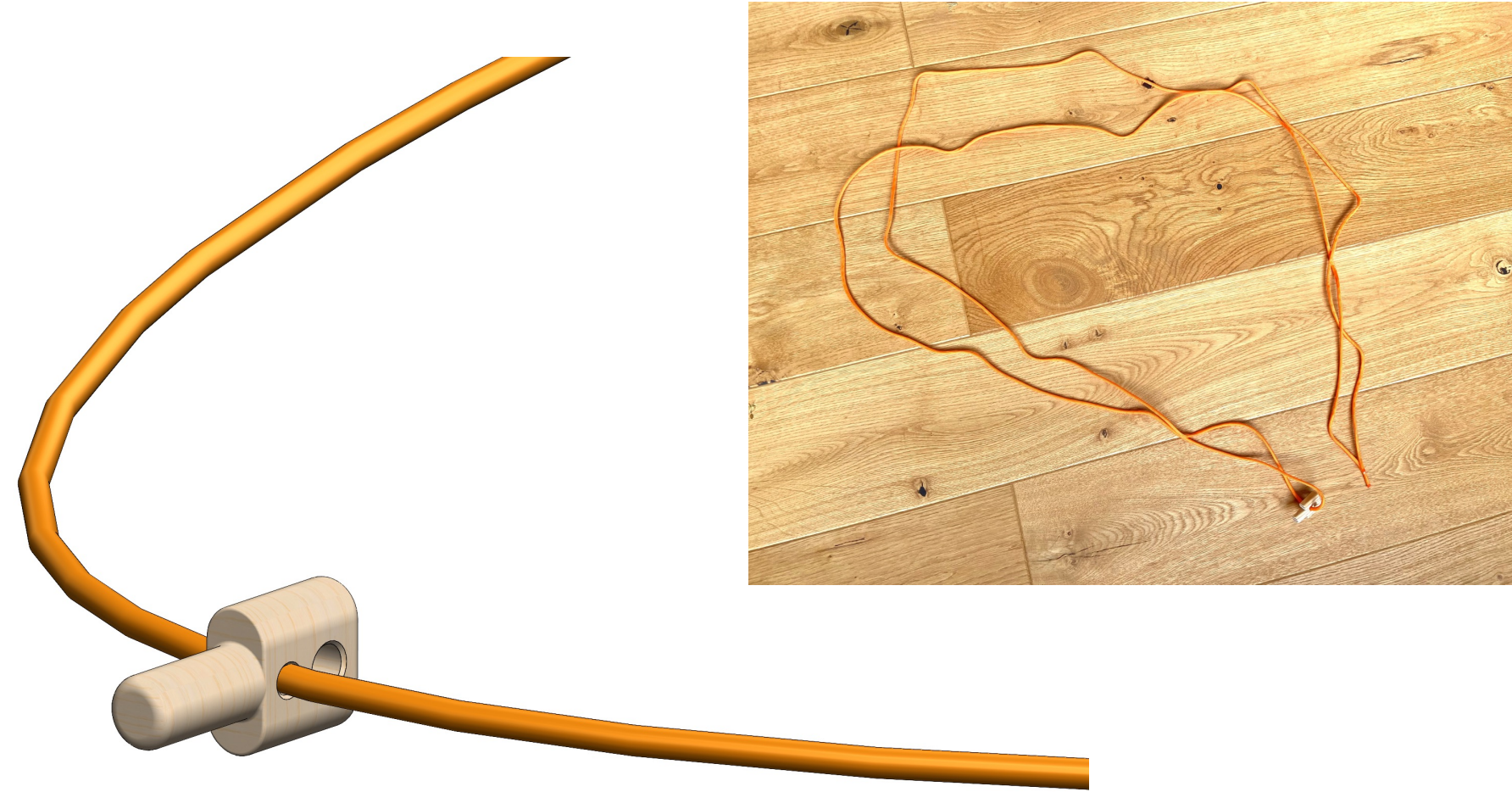
1. Assembling wooden parts



Sticking together the boards and posts.

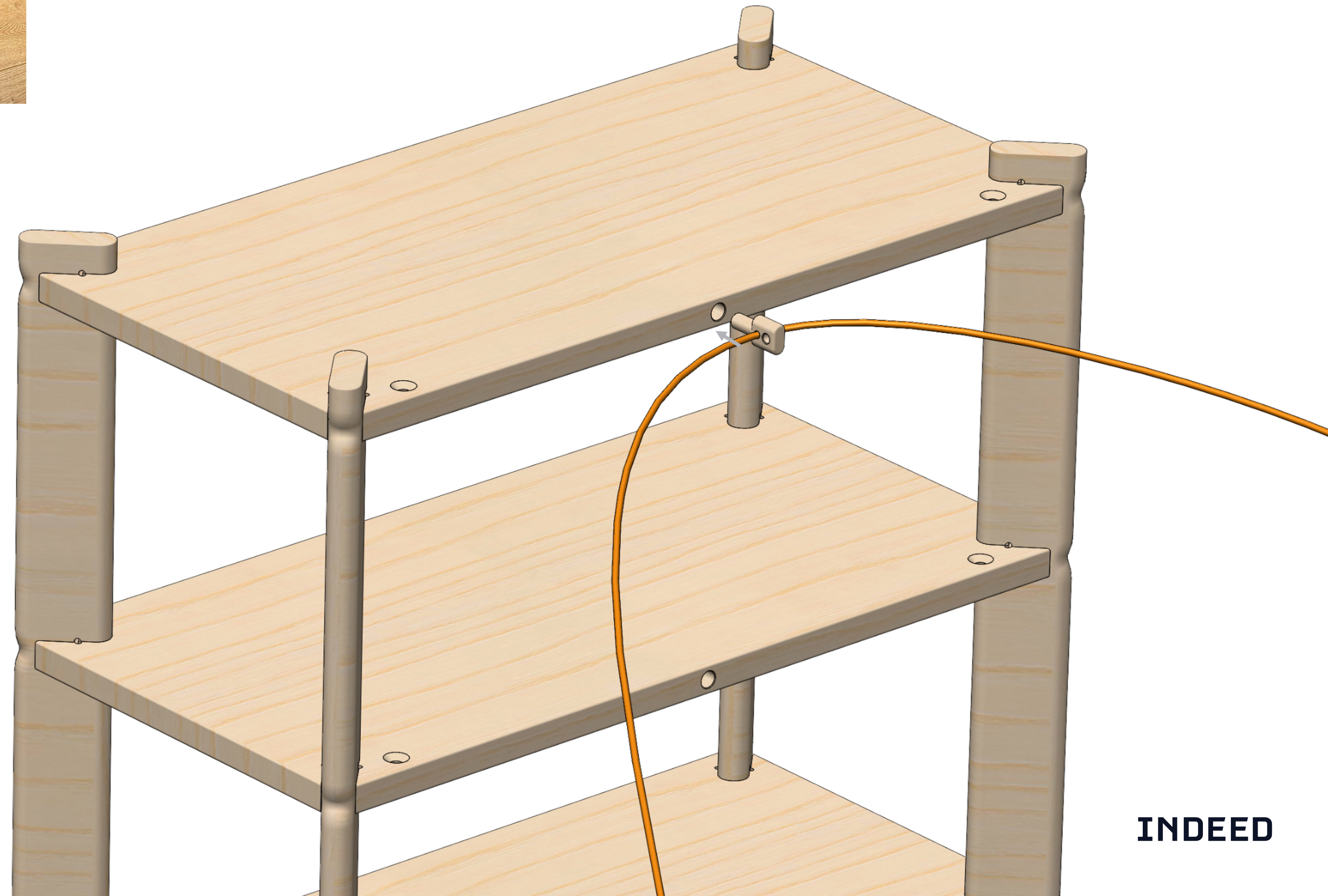


2. Assembling the ropes



A) Sticking the dowels on the longer ropes and place it approximately in the middle.

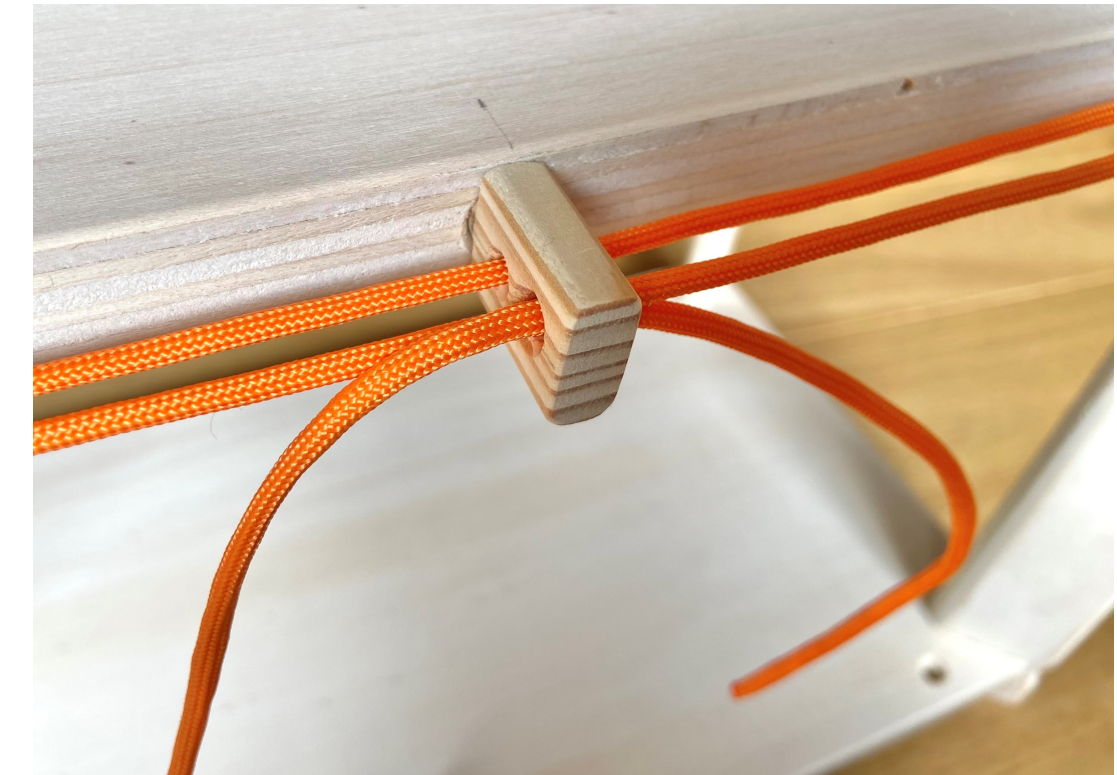
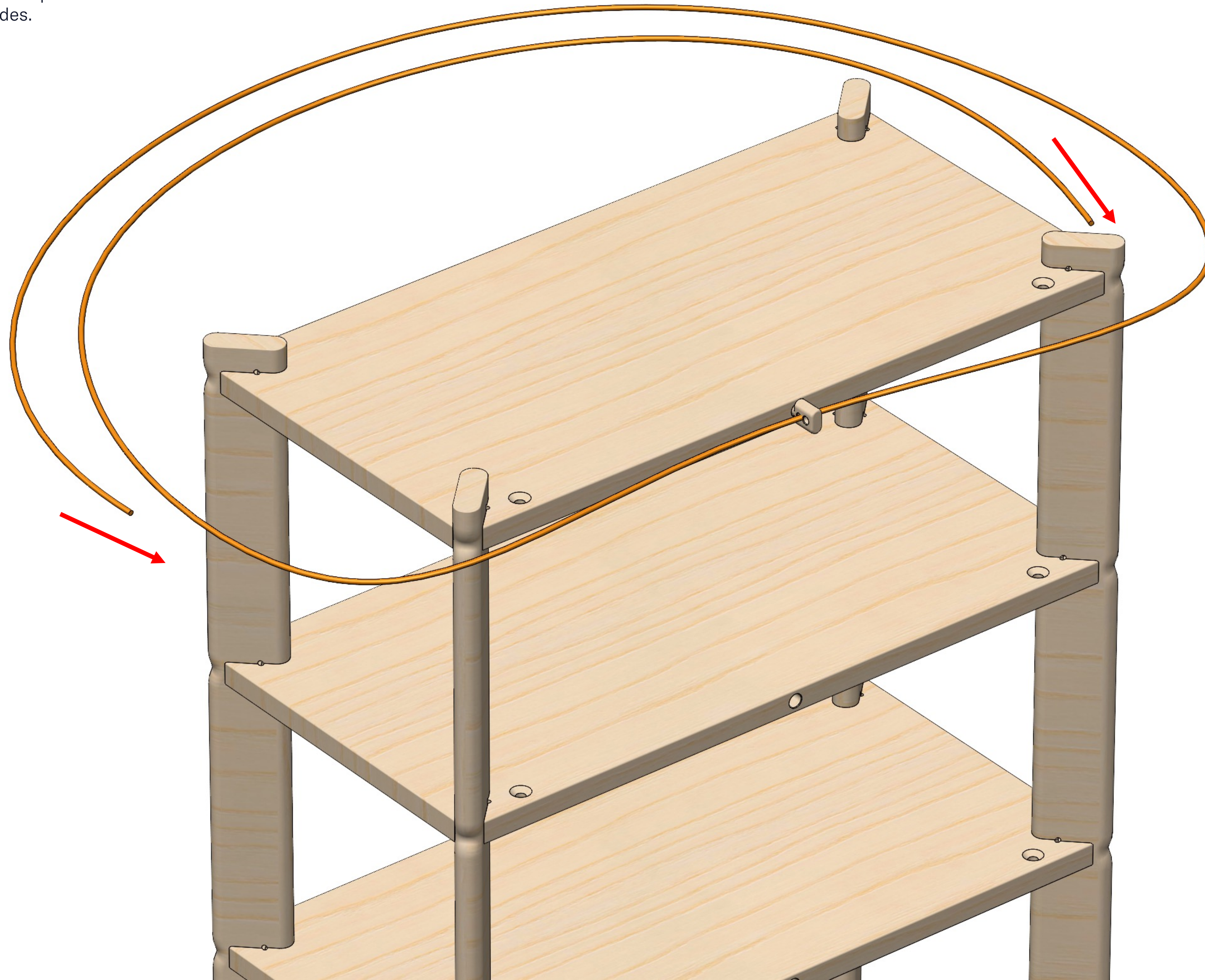
B) Sticking the dowel into the drilling holes on the back of the boards.



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2. Assembling the ropes (horizontal)

C) Guiding the rope around the whole shelf from both sides.



D) Sticking the ropes through the bigger hole of the dowel from both sides.

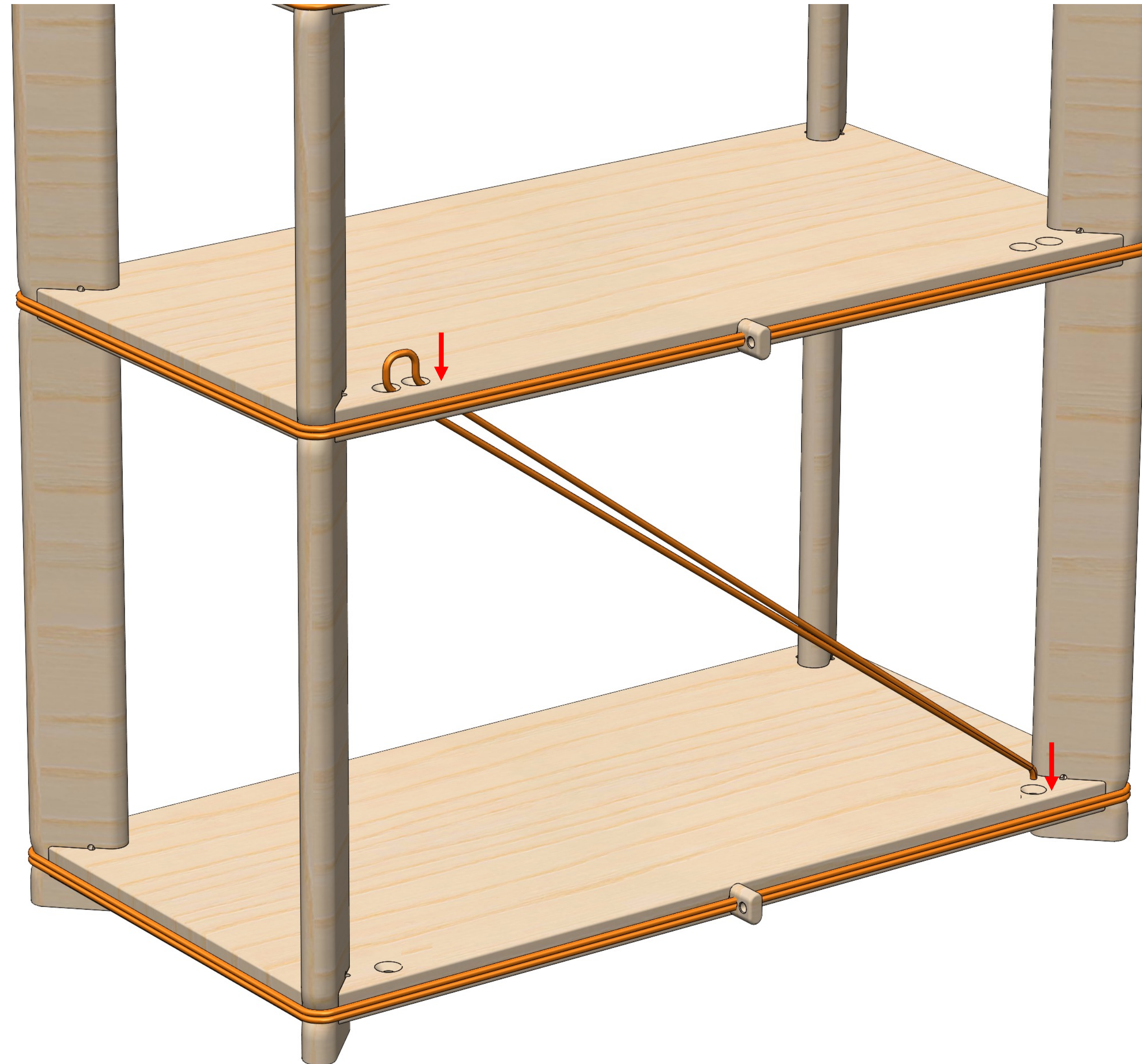


E) Knotting the ropes together and placing the knot underneath the dowel.

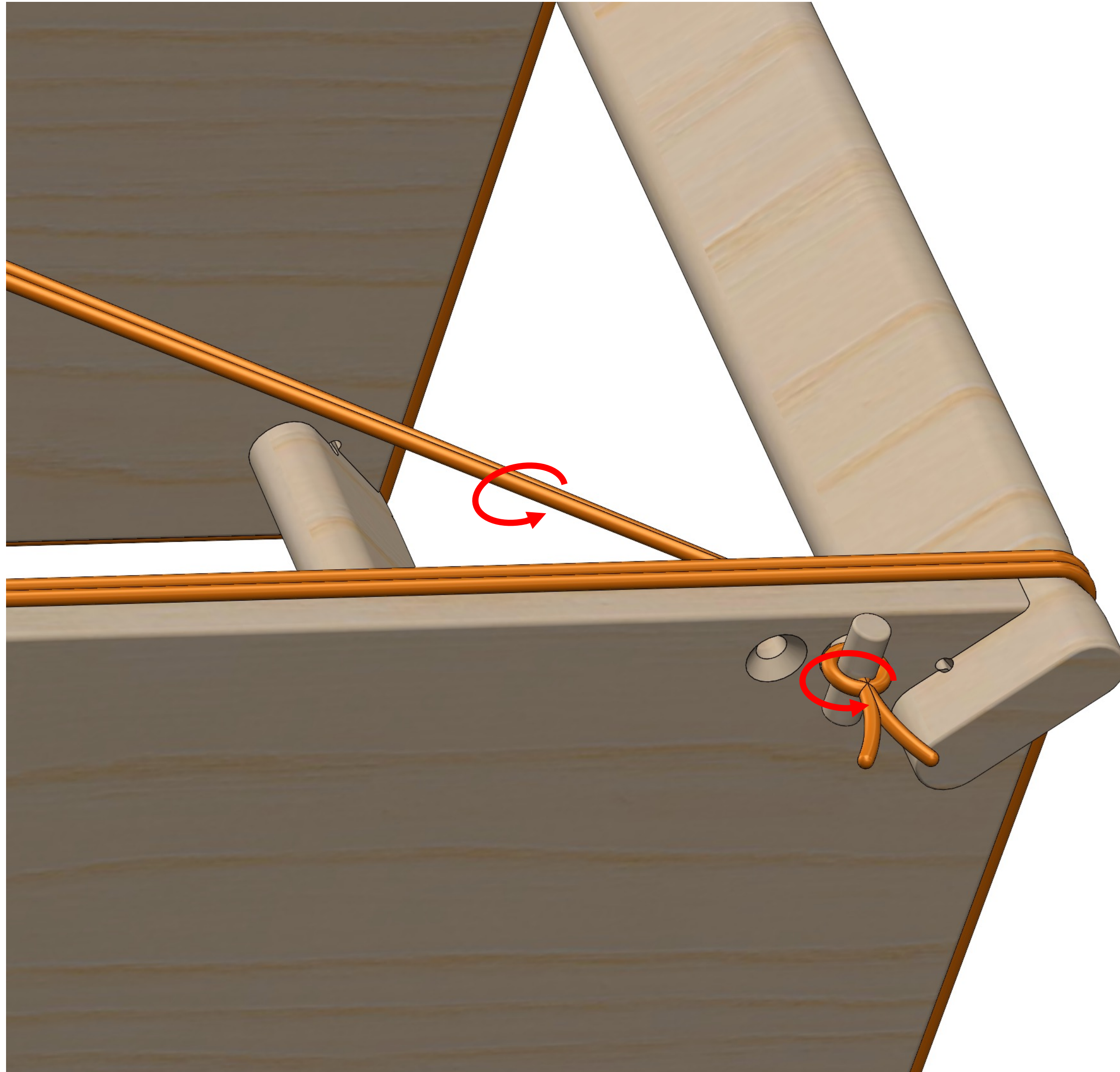
F) Twisting the ropes by turning the dowel a few times. Then sticking the dowel back into the hole. Proceed with all other boards the same way.

2. Assembling the ropes (diagonal)

A) Put the rope through both holes of the second board and through the one hole of the bottom board on the opposite side.



2. Assembling the ropes (diagonal)



B) Placing the cylindrical dowel between the ropes, making a knot underneath and finally twist the dowel a few times until the rope is tight and stabilizing the shelf.

Impressions

