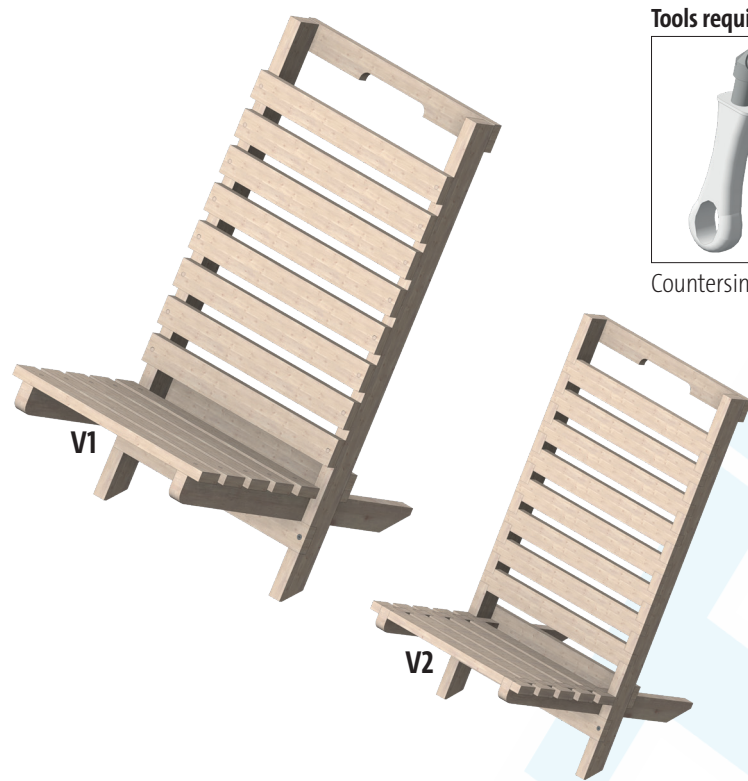
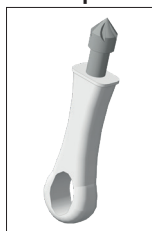


127.153

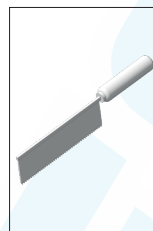
Beach chair



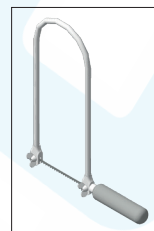
Tools required:



Countersink



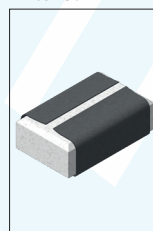
Miter saw



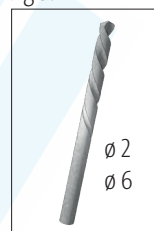
Jig saw



Wood rasp



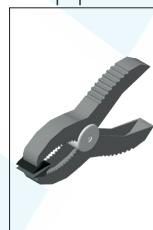
Sandpaper



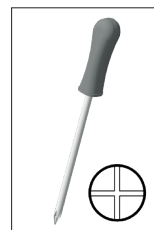
Drill



Wood glue



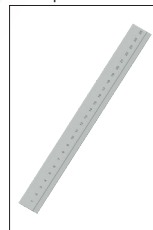
Clamp



Screwdriver



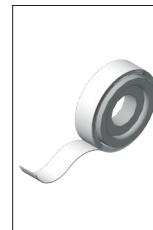
Pencil



Ruler



Firm chisel

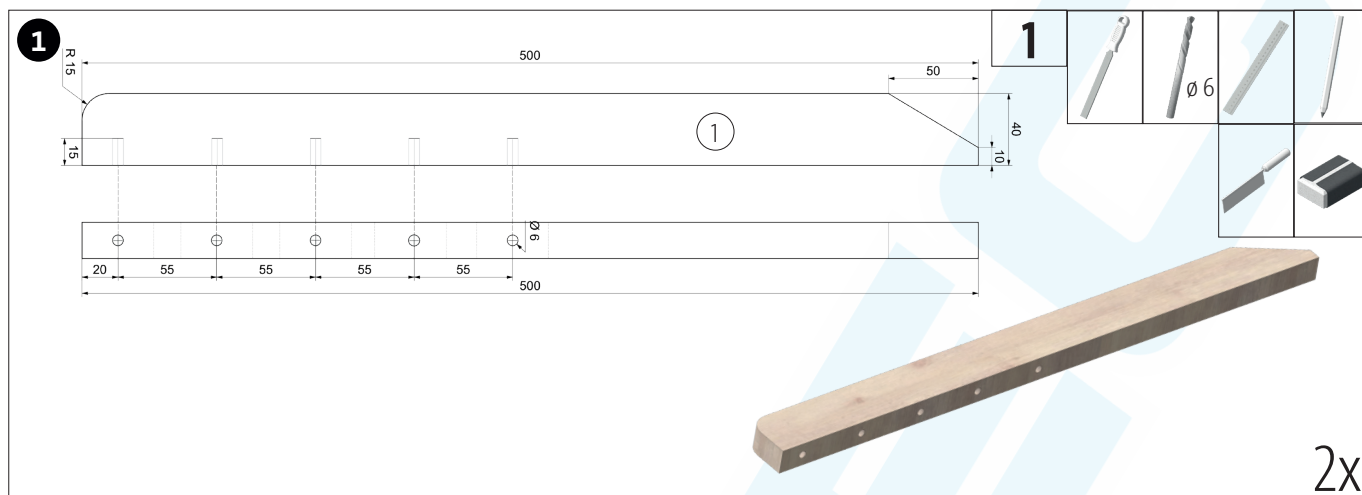


Adhesive tape

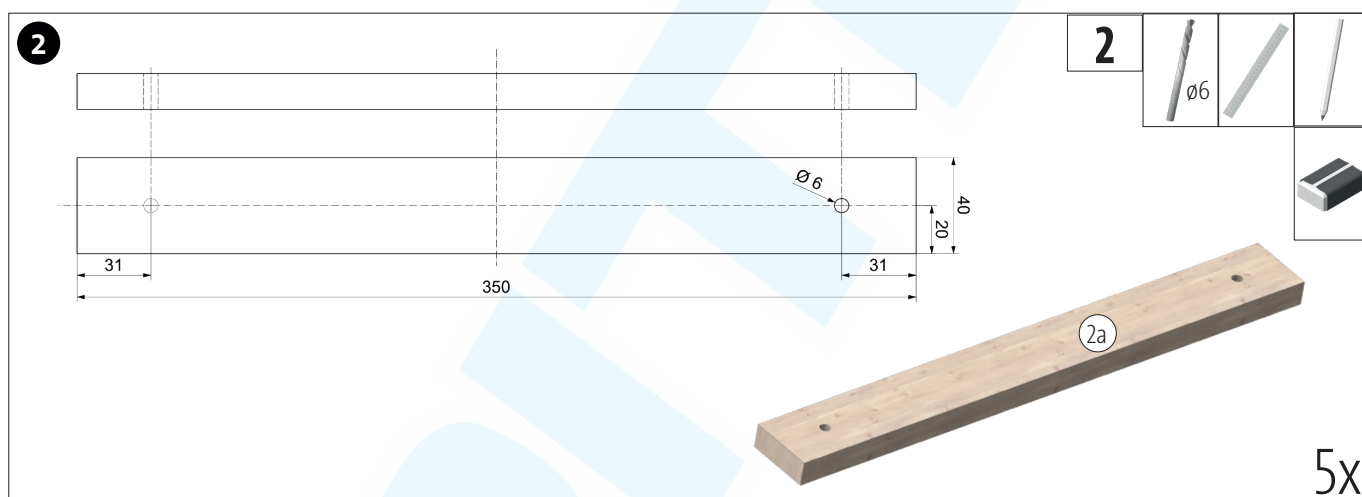
NOTE:

The OPITEC range of projects is not intended as play toys for young children. They are teaching aids for young people learning the skills of Craft, Design and Technology. These projects should only be undertaken and tested with the guidance of a fully qualified adult. The finished projects are not suitable to give to children under 3 years old. Some parts can be swallowed. Danger of suffocation! Not suitable for children under 36 months. Choking hazard!

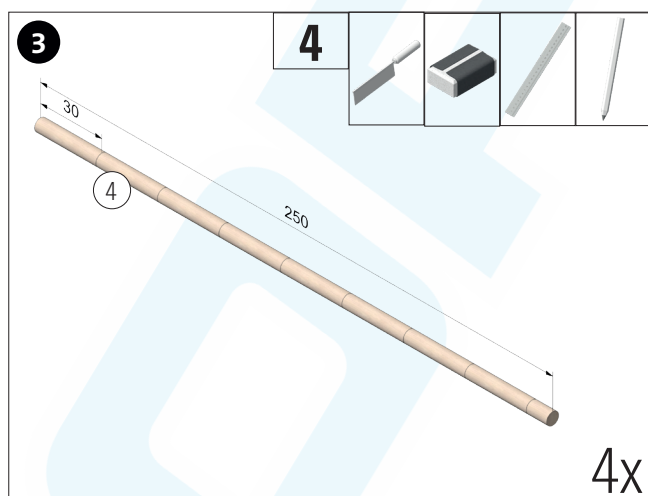
Part List	Quantity	Dimensions (mm)	Description	Part no.
Wooden strip	2	500 × 40 × 20	Seat surface	1
Wooden strip	16	350 × 40 × 20	Seat + backrest	2
Wooden strip	2	700 × 40 × 20	Lehn e	3
Round rod	4	ø6x250	Dowel	4
countersunk screws	6	M4x40	Seat + backrest	5



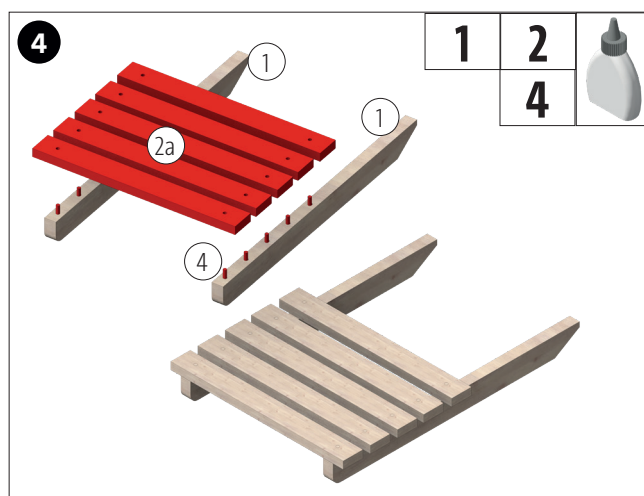
Transfer the template (1A) for the side rails of the seat onto the wooden slats (1). Drill blind holes ($\varnothing 6$ mm) to the specified dimensions, 15mm deep. Round off one corner at the top edge, as shown. Bevel the opposite end of the strip using the template.



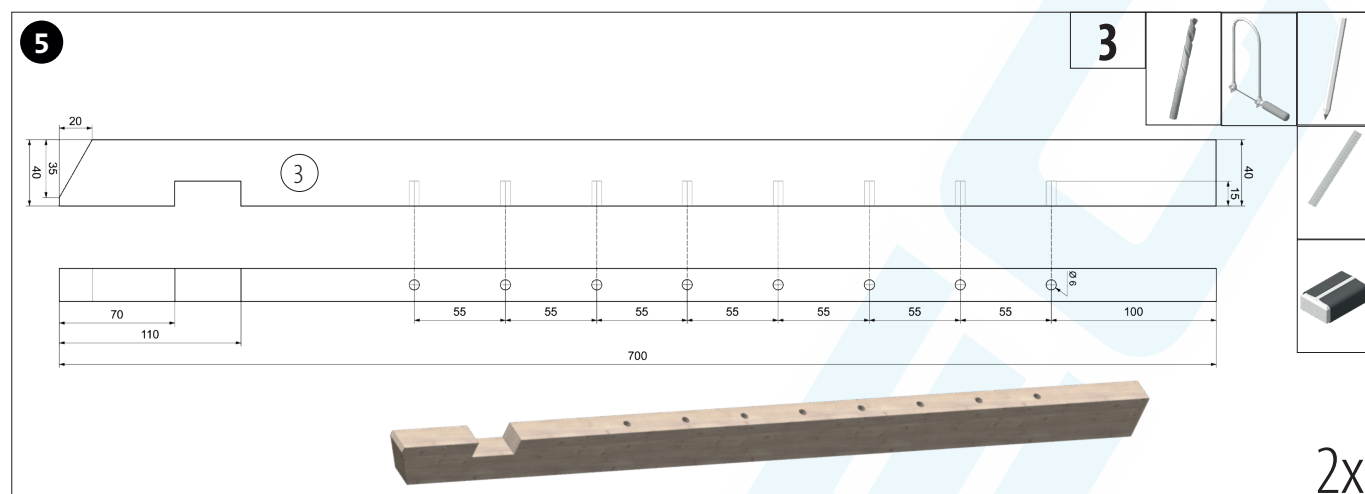
Mark out the positions of the 6 mm diameter holes, as shown in the diagram, on 5 wooden strips (2a). Then drill through the holes. Sand the wooden strips all round until they are smooth.



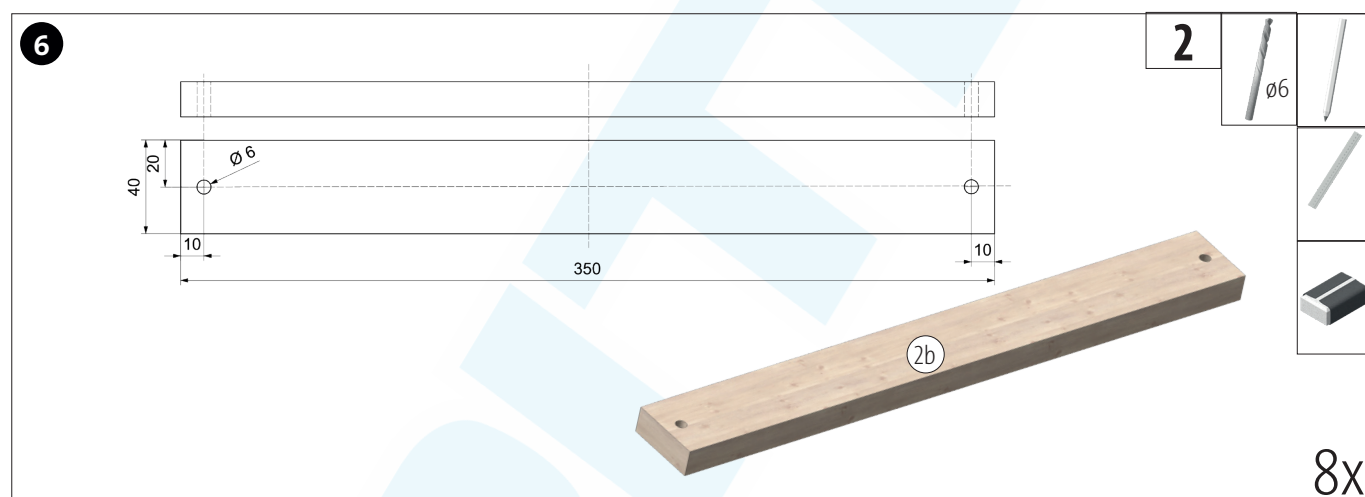
Cut 8 pieces of 30 mm each from the round bars (4) and clean up the saw cuts.



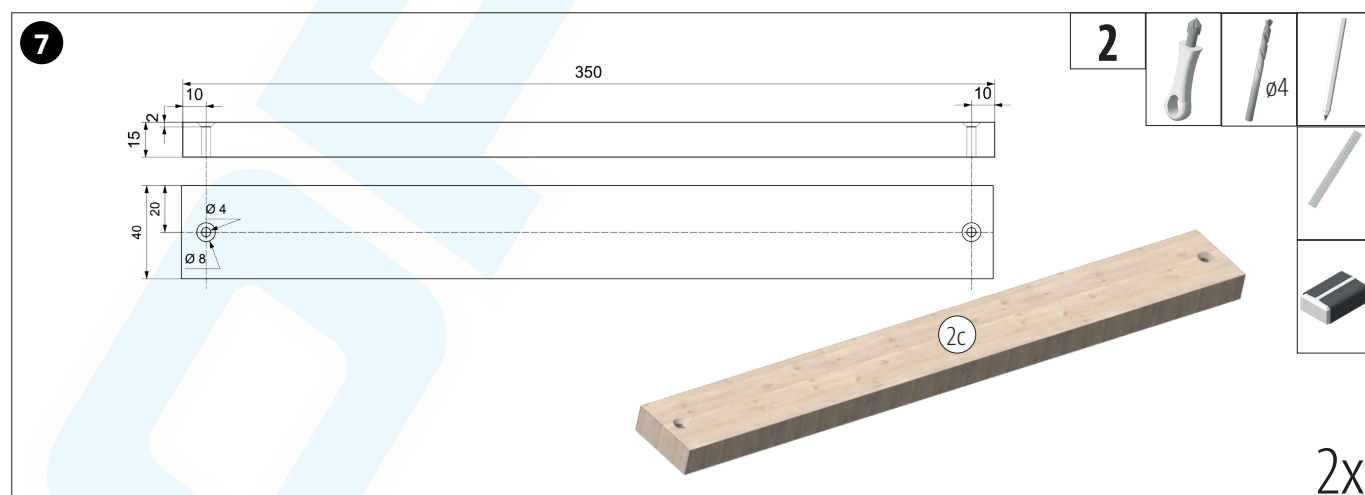
To make the seat, glue 5 pieces of round rod (4) into the holes in each of the two strips (1). Next, as shown, glue the strips (2a) in place and allow the glue to dry thoroughly.



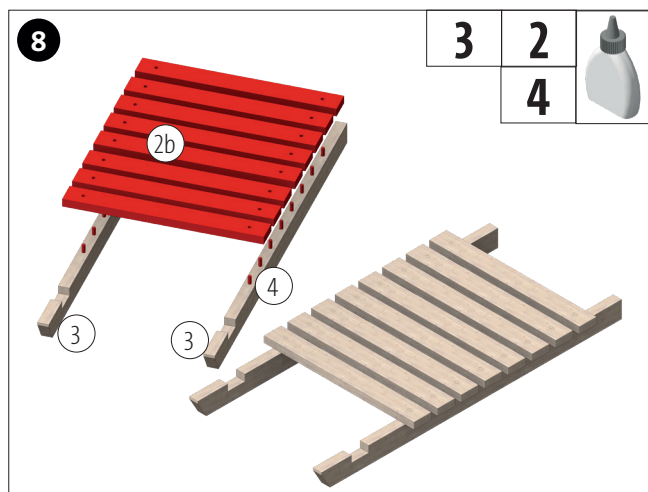
Transfer the template (1B) onto the wooden strips (3). Drill blind holes, 6 mm in diameter and 15 mm deep. Cut out the recess and chamfer the strip on one side. Clean all the saw cuts.



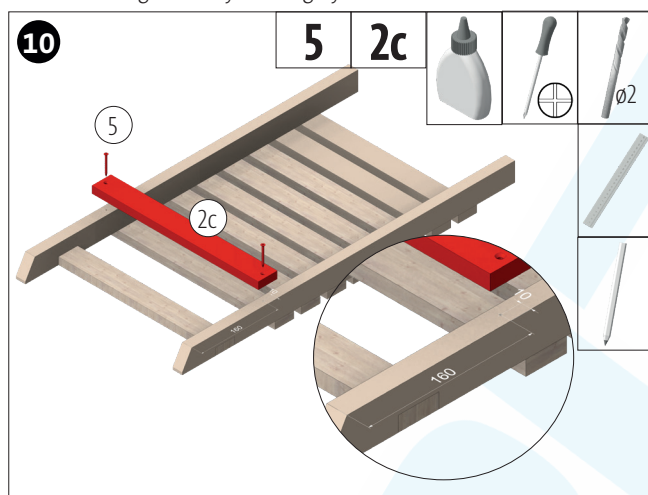
Mark the positions of the 6 mm diameter drill holes, as shown in the diagram, on 8 wooden strips (2b). Then drill through the holes. Sand the wooden strips all round until they are smooth.



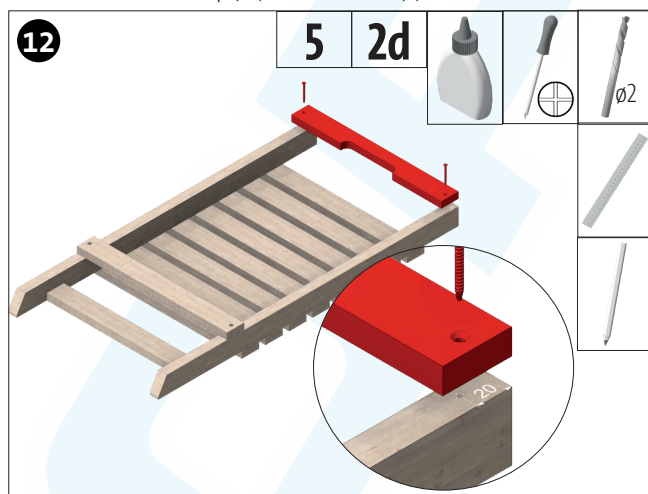
Transfer the positions of the $\varnothing 4$ mm drill holes, as per the dimensions, onto 2 wooden strips (2c). Then drill through the holes and countersink them. Sand the wooden strips all round until they are smooth.



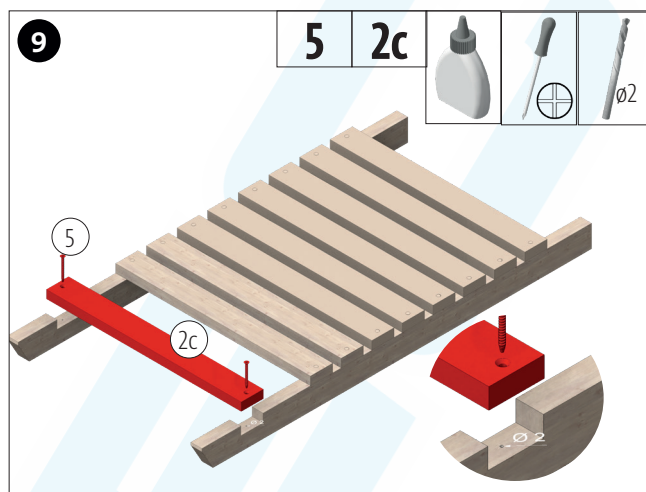
To assemble the backrest, glue 8 round rod pieces (4) into the holes in each of the two strips (3). Next, glue the strips (2b) in place as shown and allow the glue to dry thoroughly.



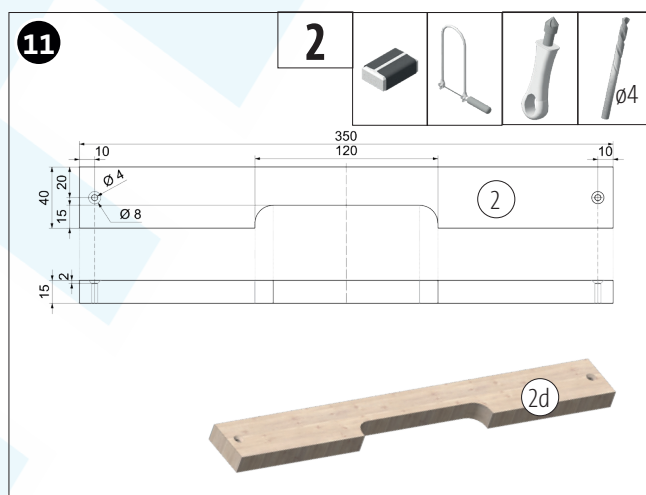
Turn the backrest over, measure 160 mm from the bevelled ends of the strips and pre-drill a 2 mm diameter fixing hole in the centre of each. The 2nd Secure the strip (2c) with 2 screws (5).



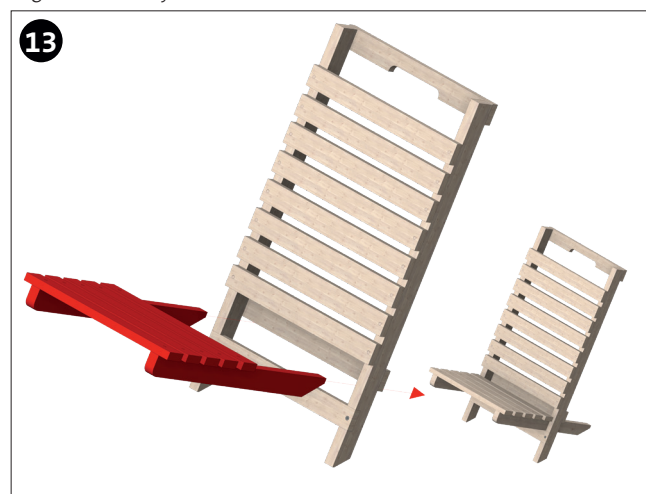
Measure 20 mm from the ends of the strips as shown in the illustration and pre-drill one 2 mm diameter fixing hole in the centre of each end. Secure the handle strip (2d) using 2 screws (5).



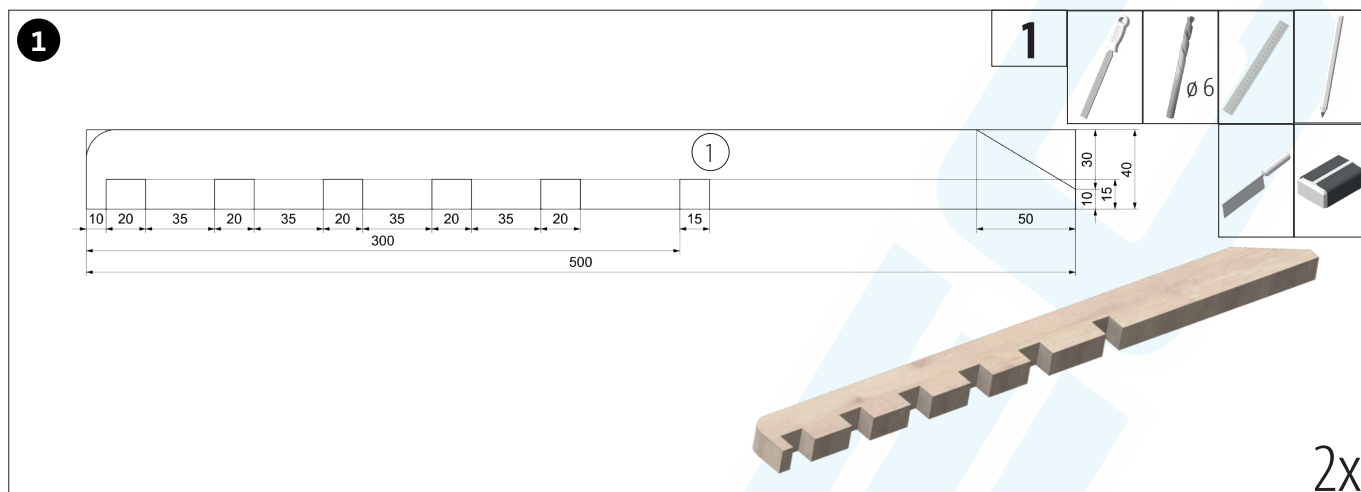
Place the strip (2c) in the designated recess using a little glue and 2 screws (5). Pre-drill the fixing holes ($\varnothing 2$ mm).



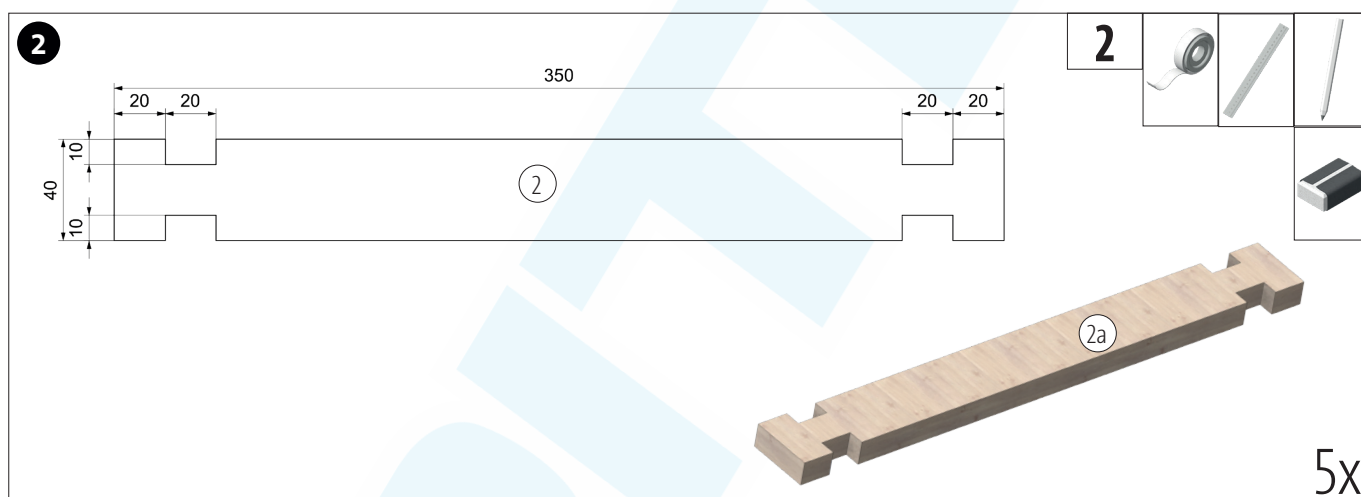
Transfer the template (C) onto the remaining wooden strip (2). Cut out the recess. Drill a 4 mm diameter hole and countersink it. Sand the edge down neatly afterwards.



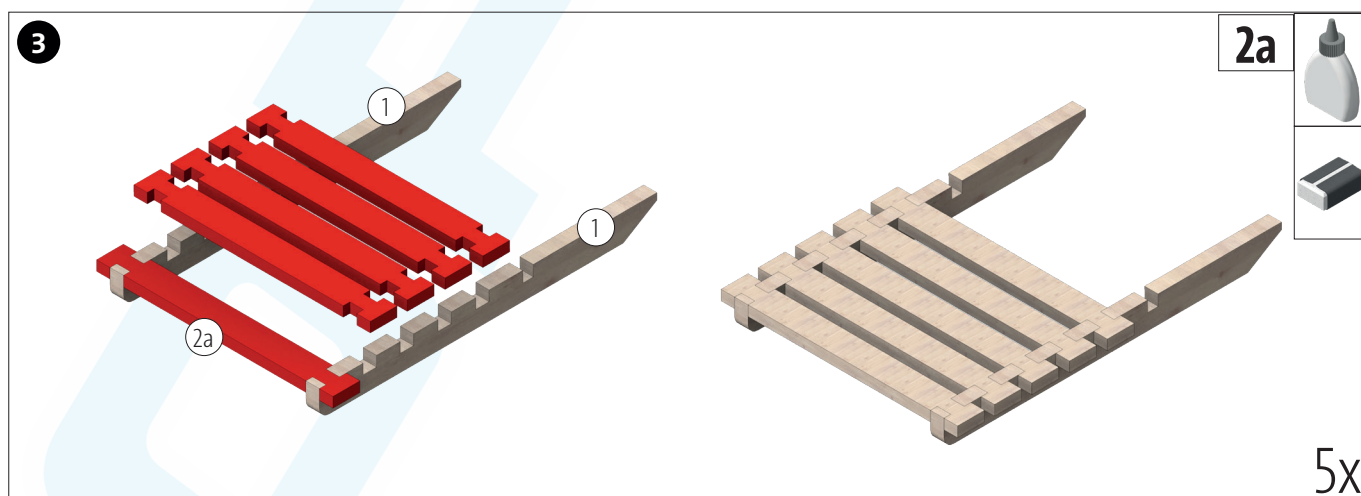
Fit the seat and backrest together as shown.
Done!



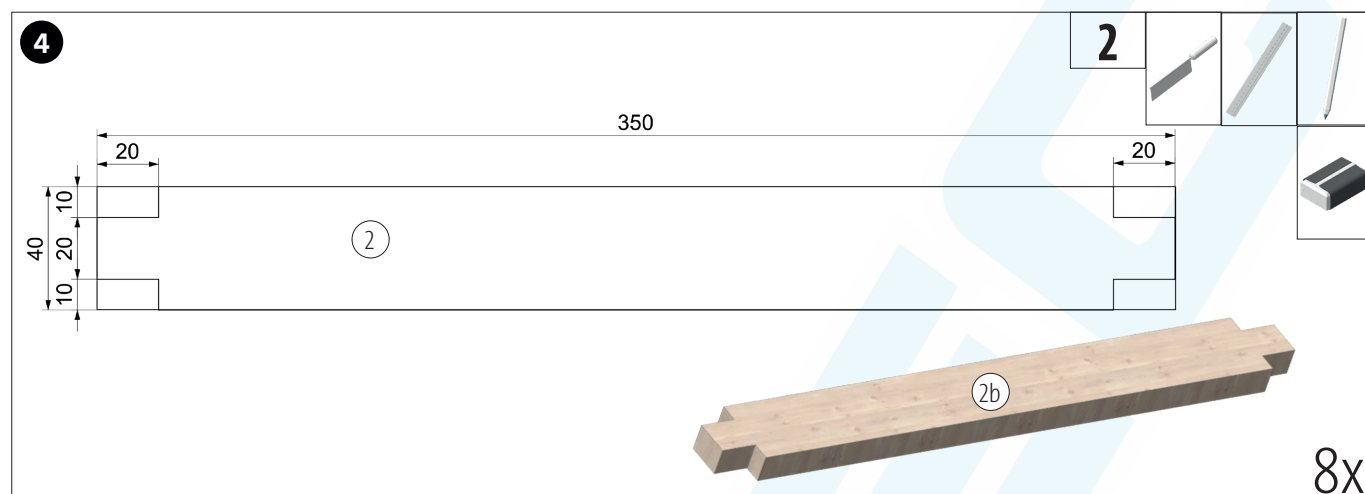
Transfer the template (2A) for the side rails of the seat onto the wooden slats (1). Round off one corner at the top edge, as shown. Bevel the opposite end of the strip using the template. Cut out the recesses and clean up the saw cuts. **Note:** It is essential to maintain the correct spacing between the recesses!



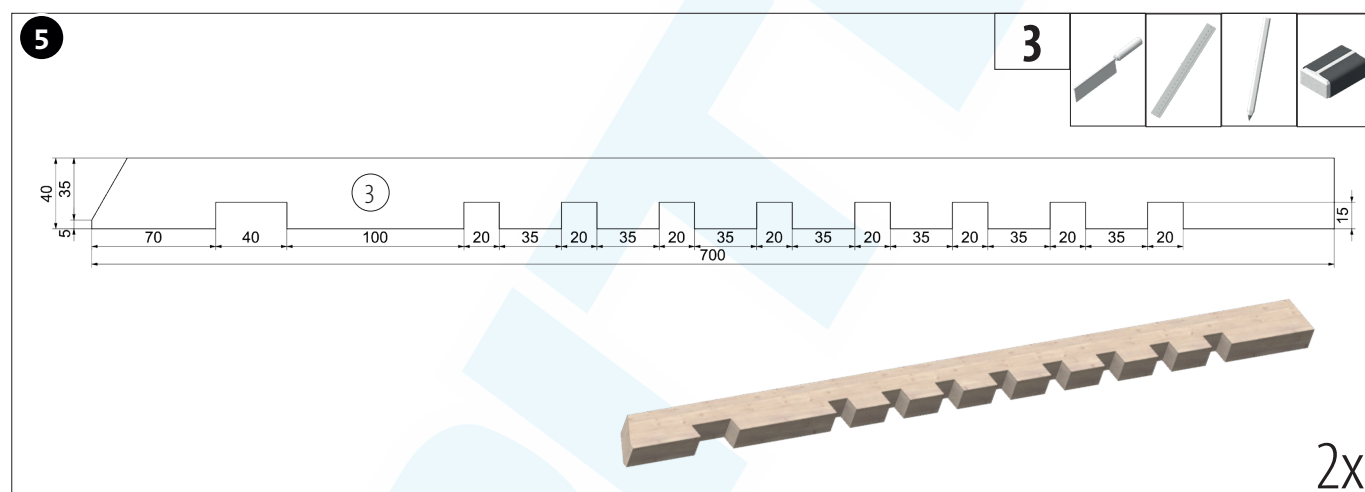
Transfer the template (2B) onto 5 of the wooden strips (2). Cut out the recesses and sand them down smoothly. **Note:** Distances must be strictly adhered to!



Glue the 5 seat strips (2a) into the recesses in the side strips (1), as shown. If they cannot be positioned correctly in their sockets, the tines must be carefully re-ground or adjusted.

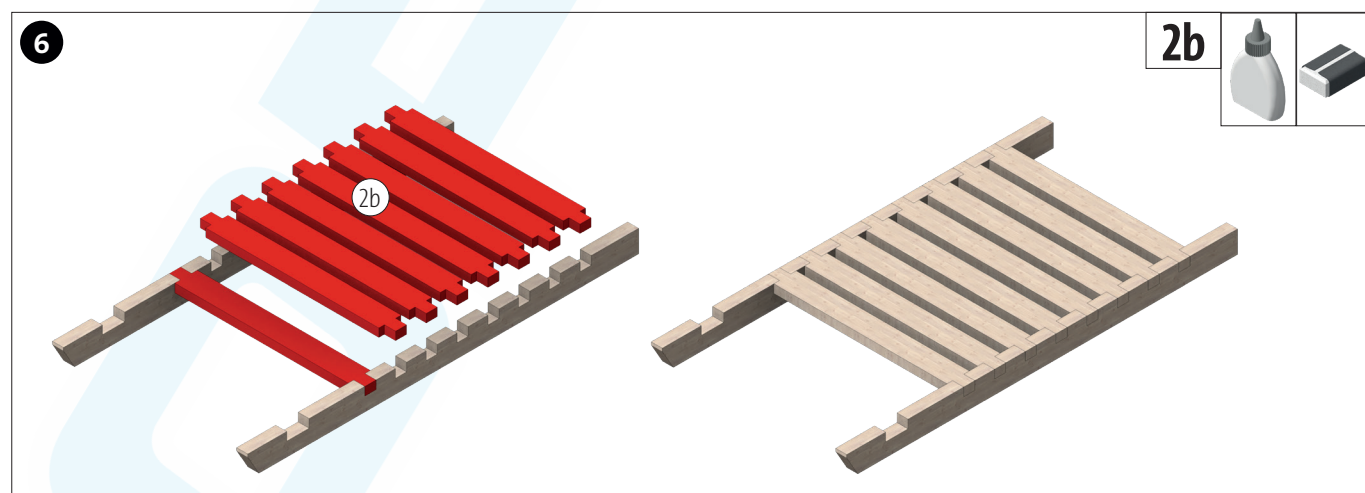


Transfer the cut-outs to 8 wooden strips (2) as shown in the diagram, saw them out and clean up the saw cuts.

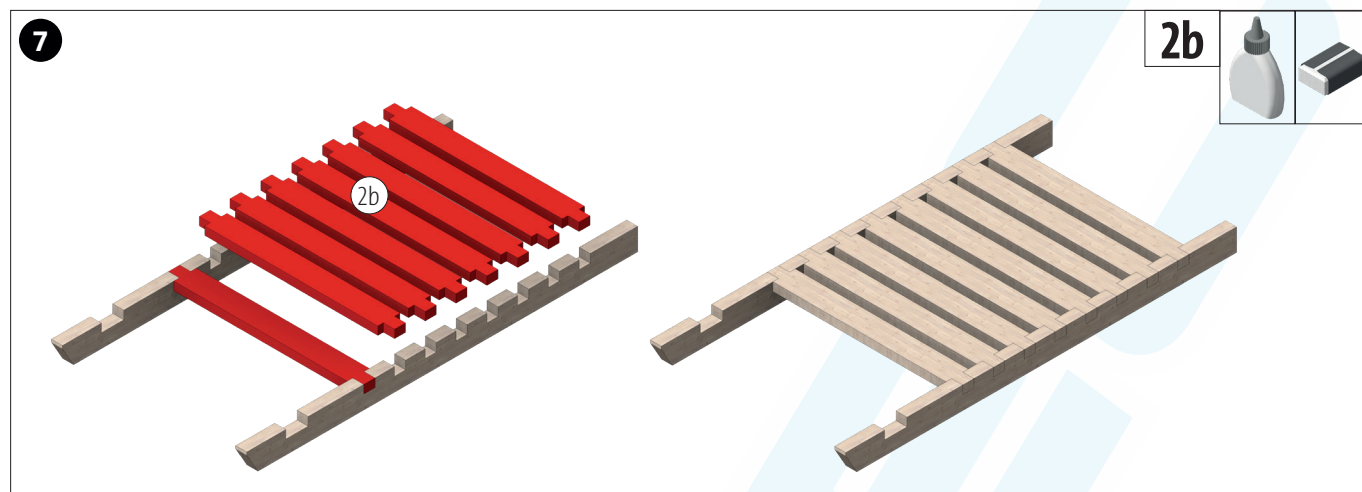


Transfer the template (2C) onto the wooden strips (3). Cut out the recess and chamfer the strip on one side. Clean all the saw cuts.

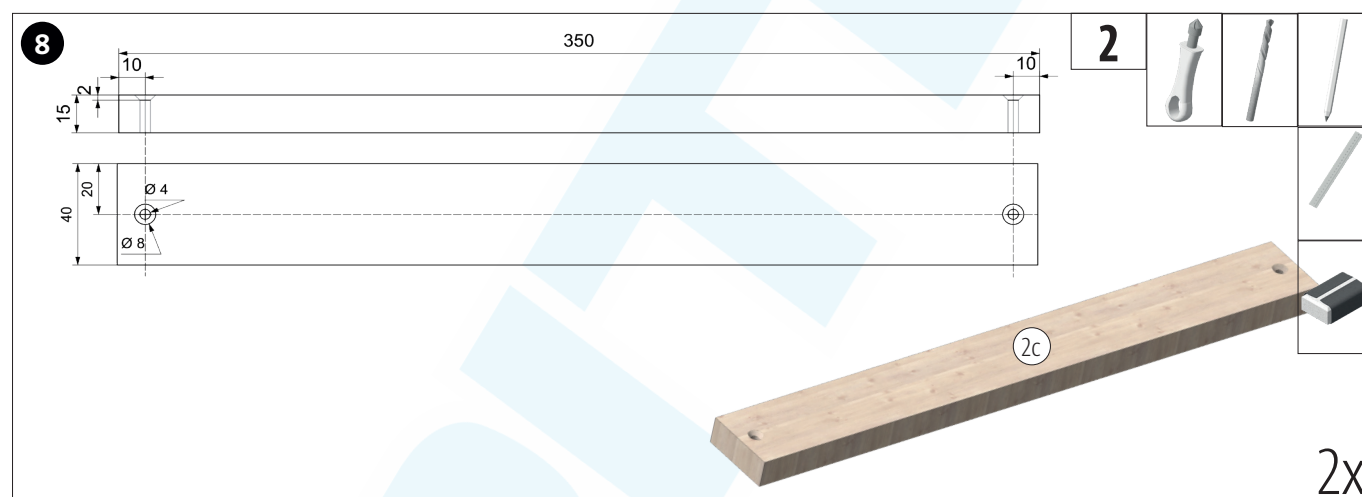
Note: It is essential to maintain the correct spacing between the recesses!



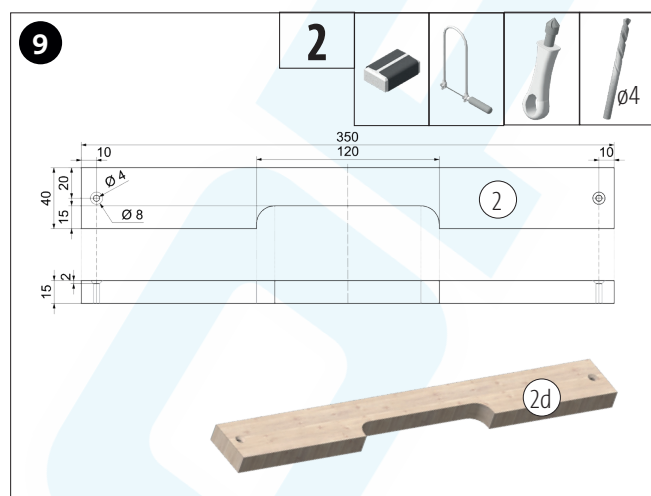
Glue the 8 backrest slats (2b) into the recesses in the side slats (1), as shown. If they cannot be positioned correctly in their sockets, the tines must be carefully re-ground or adjusted.



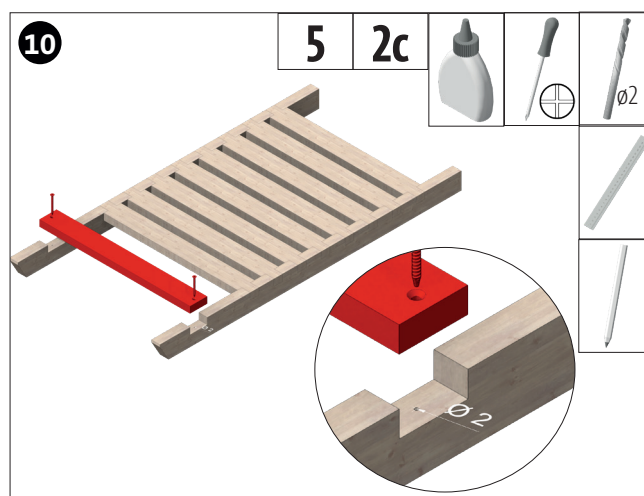
Glue the 8 backrest slats (2b) into the recesses in the side slats (1), as shown. If they cannot be positioned correctly in their sockets, the slats must be carefully re-ground or adjusted.



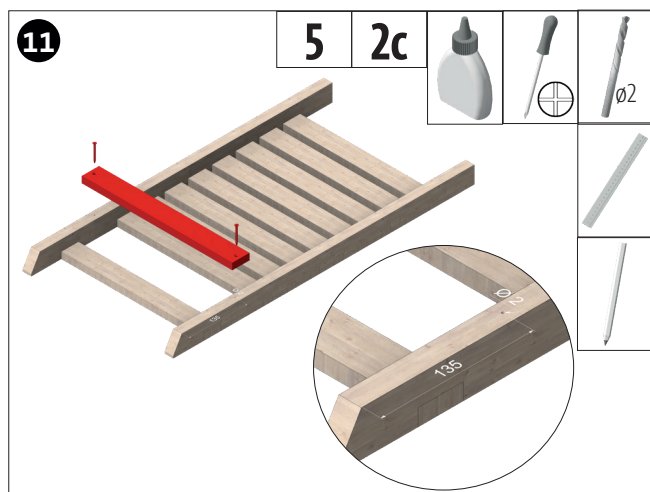
Transfer the positions of the $\varnothing 4$ mm drill holes, as per the dimensions, onto 2 wooden strips (2c). Then drill through the holes and countersink them. Sand the wooden strips all round until they are smooth.



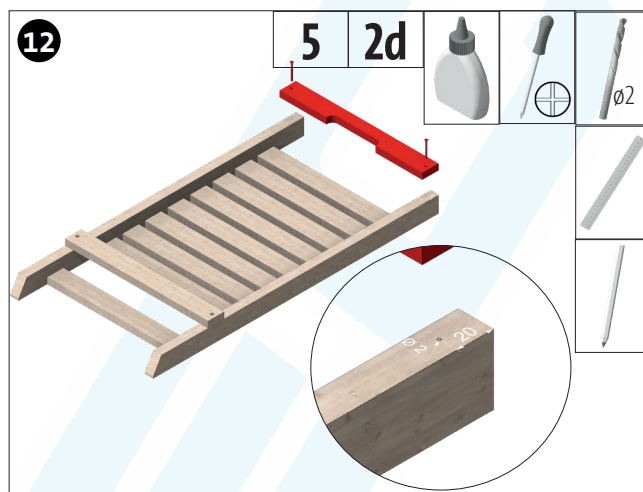
Transfer the template (C) onto the remaining wooden strip (2). Cut out the recess. Drill a 4 mm diameter hole and countersink it. Sand the edge down neatly afterwards.



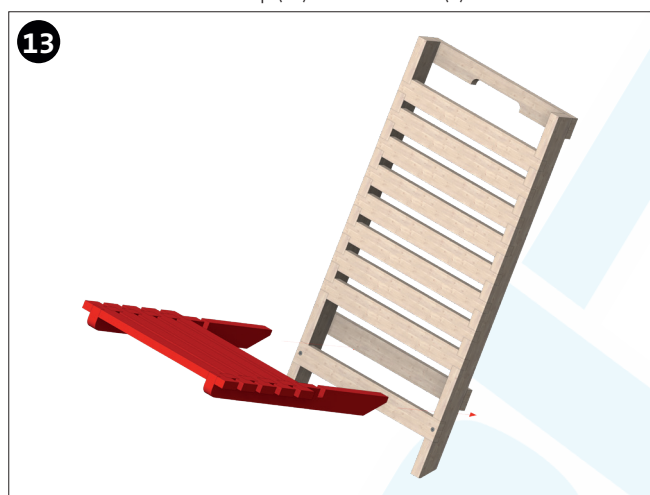
Place the strip (2c) in the designated recess using a little glue and 2 screws (5). Pre-drill the fixing holes ($\varnothing 2$ mm).



Turn the backrest over, measure 135 mm from the bevelled ends of the strips and pre-drill a 2 mm diameter fixing hole in the centre of each end. The 2nd Secure the strip (2c) with 2 screws (5).



Measure 20 mm from the ends of the strips as shown in the illustration and pre-drill one 2 mm diameter fixing hole in the centre of each end. Secure the handle strip (2d) using 2 screws (5).

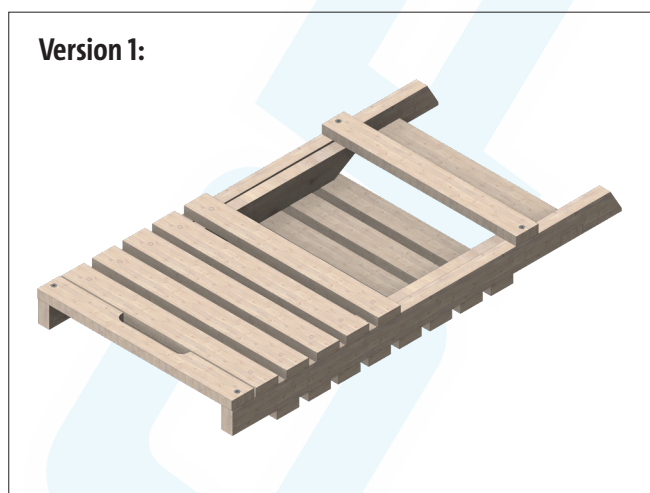


Fit the seat and backrest together as shown.



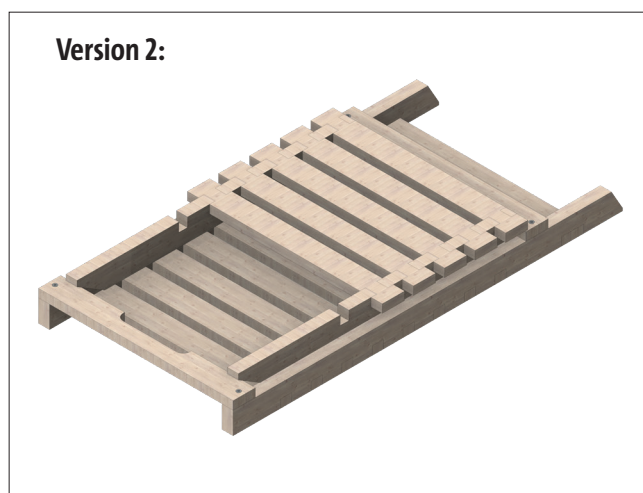
Done!

Version 1:



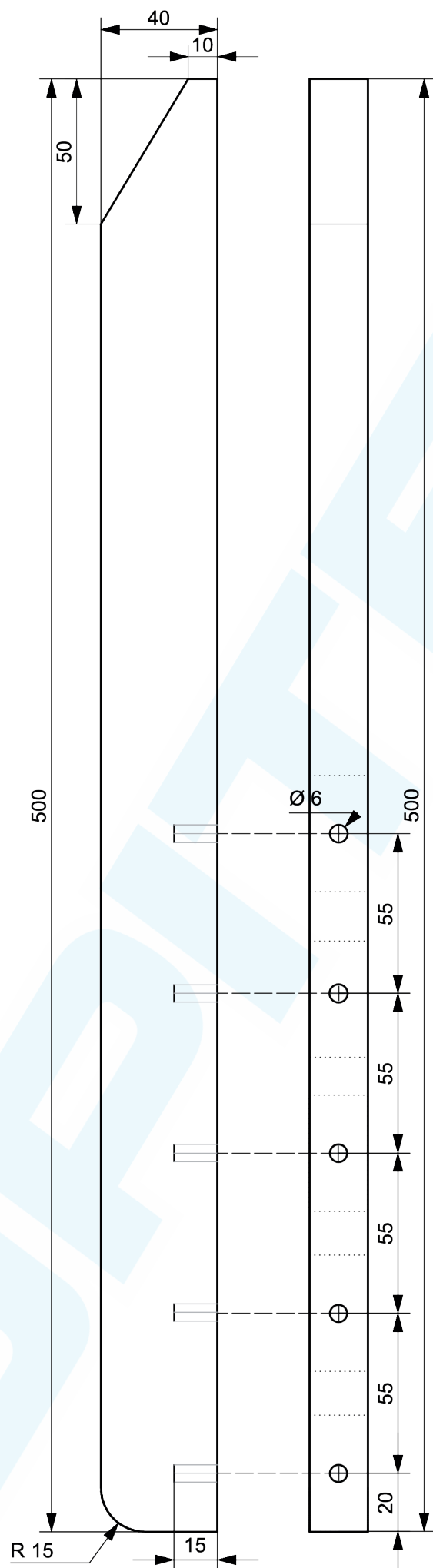
To save space, both parts of the chair can be folded together, as shown.

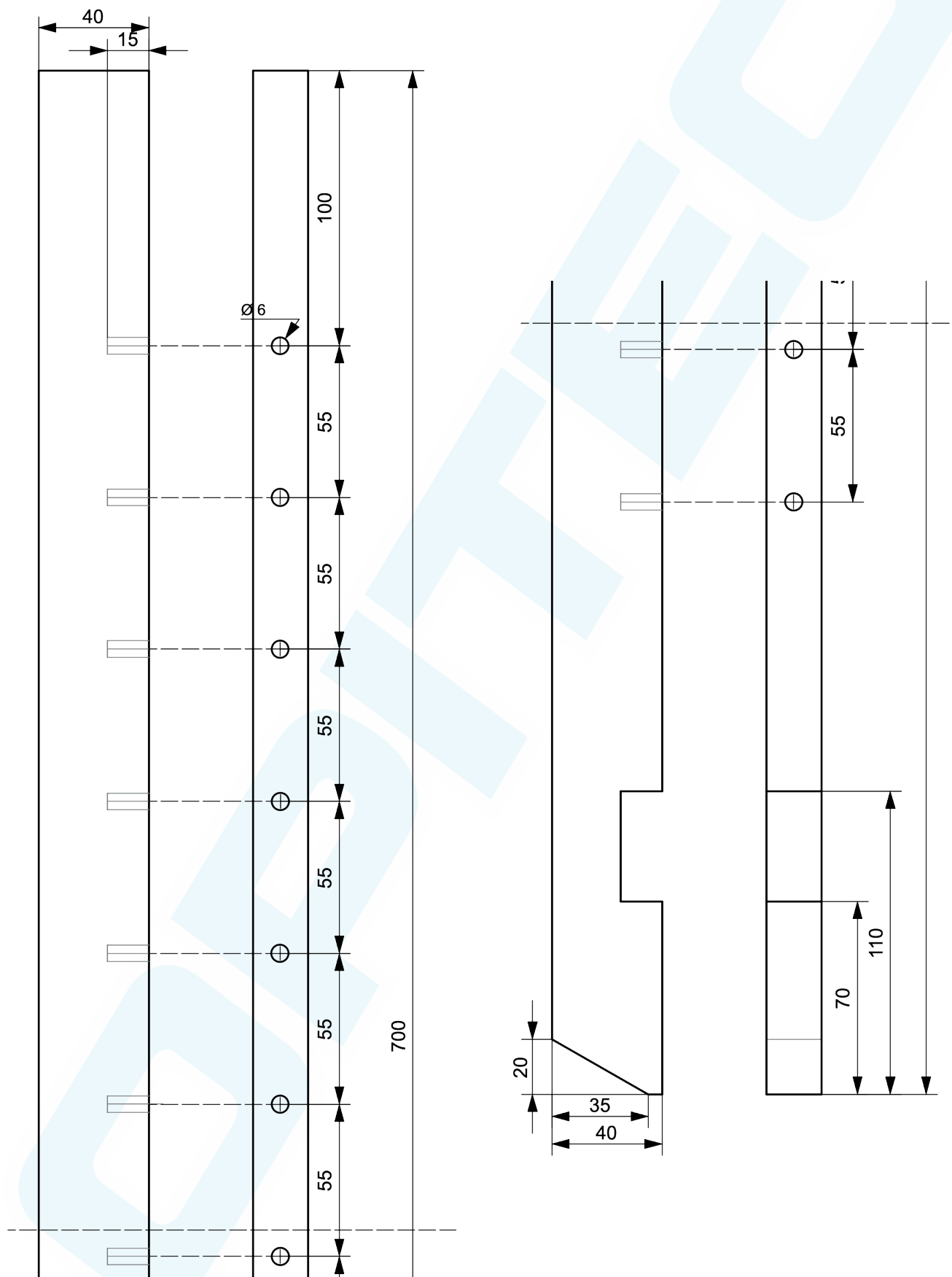
Version 2:



Assembly instructions 127.153
Beach chair

Template 1A
SCALE 1:2



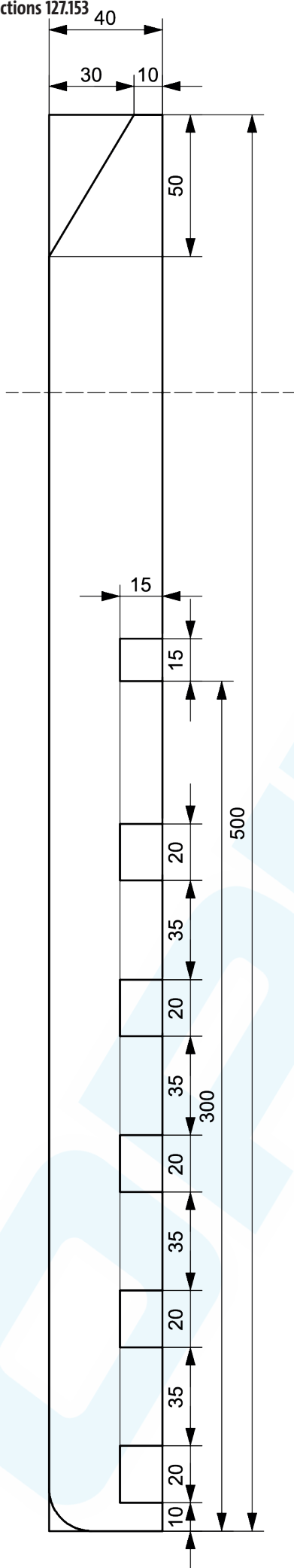


Assembly instructions 127.153

Beach chair

Template 2A

SCALE 1:2



Template 2A

SCALE 1:2

