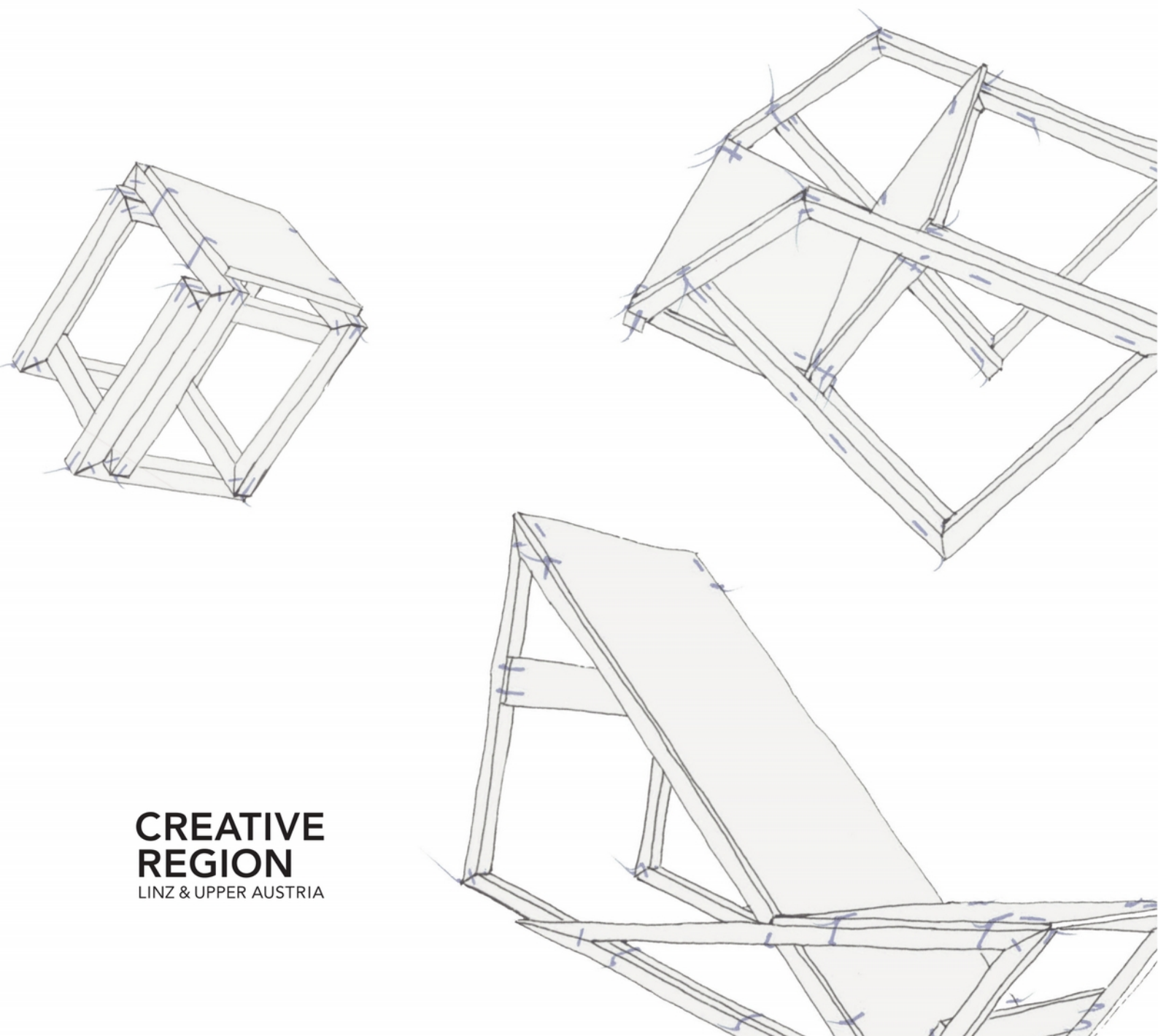


# Familie Binder<sup>cc</sup>

open furniture. welcome to copy. built to hack.

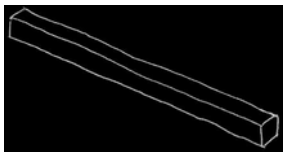


**CREATIVE  
REGION**  
LINZ & UPPER AUSTRIA

## MATERIALS

### Bars

3.4 x 3.4 cm spruce wood bar



### Boards

spruce plywood  
boards 1.2 cm thick



### Cable ties

282 mm long  
and 4.8 mm wide

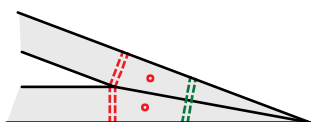


Familie Binder was built with spruce wood to keep the costs low. Other materials may be used as well, as long as the boards and bars are sturdy enough. Only high quality cable ties should be used as low quality ones break easily. The color can also be changed. For outdoor use, treat the surfaces, for instance with varnish, or use weather-resistant materials.

To make changes in shape or size, adapt the following construction plans.  
The next page explains in detail how to assemble the individual bars in the most stable way.

## DRILLING

Most of the drill holes are marked red on the plan. They indicate where single parts or elements are to be joined together. Drill holes marked in green only apply to Binder 46/16. These green holes must not be drilled in advance. They should be drilled only after certain elements have already been joined together as indicated.



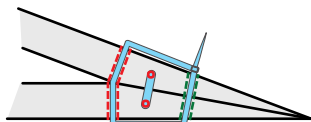
The diameter of the holes should only be a little bigger than that of the cable tie to prevent the wire from slipping around in the holes. We used a drill of 5 mm in diameter and a cable tie with a width of 4.8 mm for Familie Bi



diameter of the drill holes: 5 mm

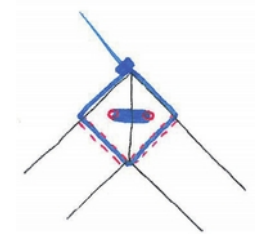
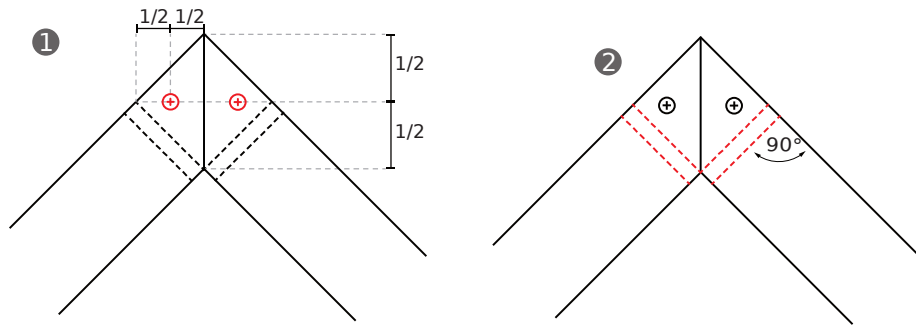


The plan shows all cable ties in blue. In order to demonstrate the direction in which best to insert and fasten cable tie, the plan also indicates the “head” and the “tail-end” of each cable tie.

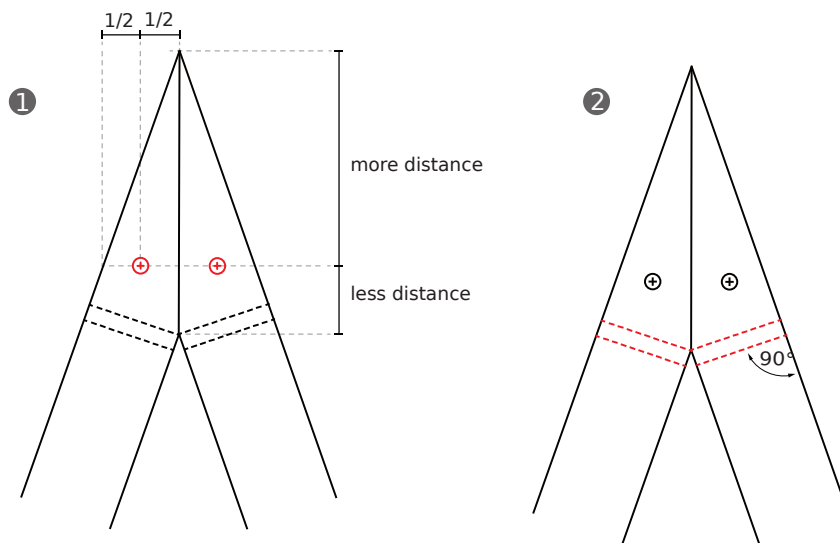
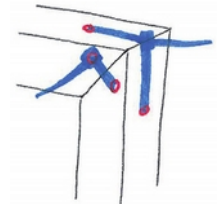


## JOINTS / DRILL HOLES

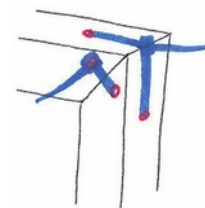
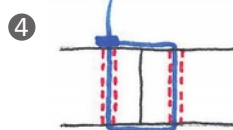
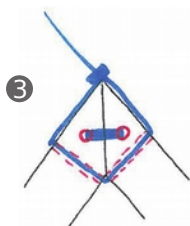
A joint is strongest when the two bars forming the joint meet at an angle of  $90^\circ$ . The bars should be joined together with two cable ties. Two drill holes are required. The two drill-holes at ① ( ) should be made in the center of the cut edge. Both drill holes ( ) on the sides are placed so as to ensure that their inner openings meet on the inside when they are drilled at a right angle to the edge of the bars.



The process is the same for pointed angles. To prevent cracks, it is important to make sure that there is enough space between the two front drill holes (① ) and the outer edges. In case of a very pointed angle, the joints should be made closer to the inner side.

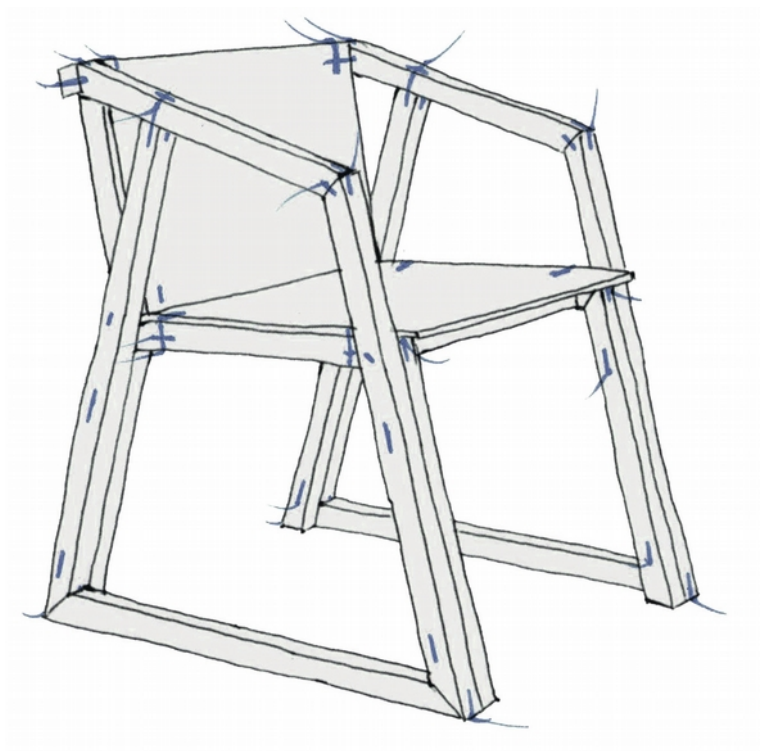


It is important to be able to fasten the cable ties tightly enough. It is easier when the "head" of a cable tie is placed on the outer edge (③ ), which can then serve as a lever. If there is no edge, the "head" should sit on top of the hole (④ ).



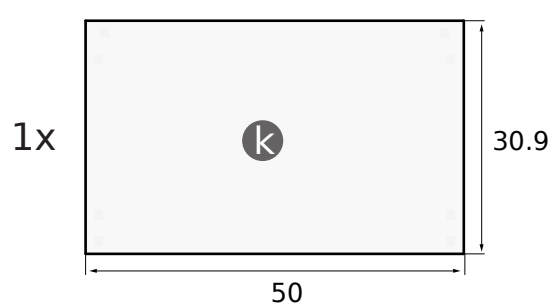
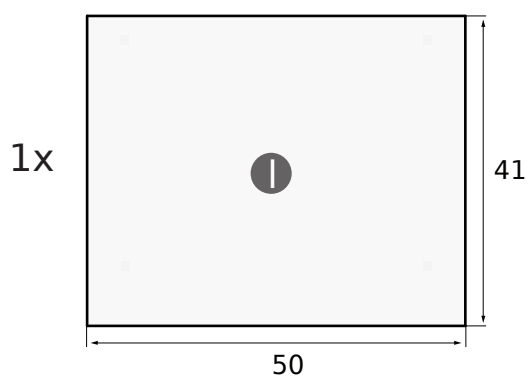
# Familie Binder<sup>cc</sup>

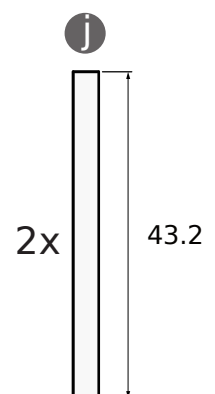
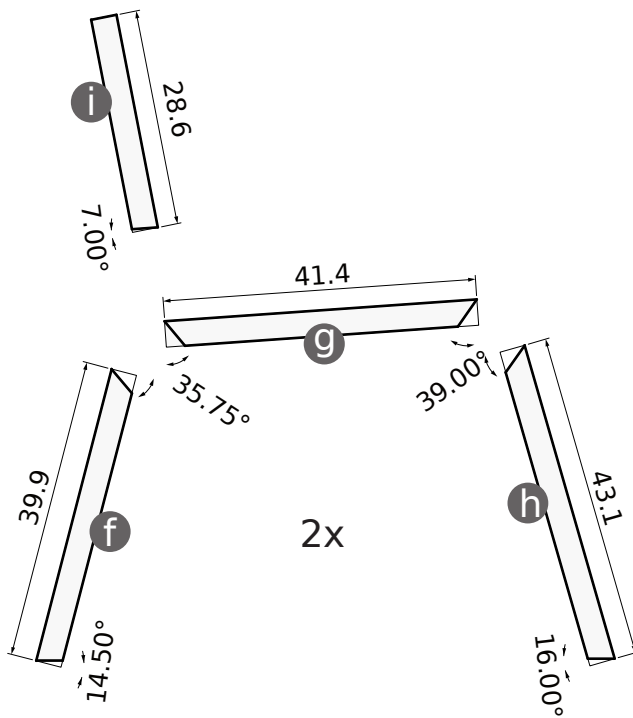
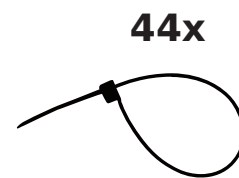
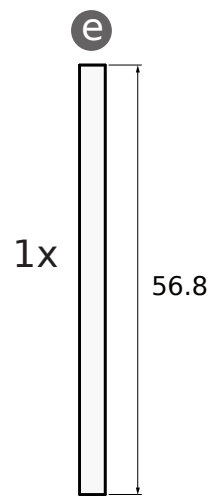
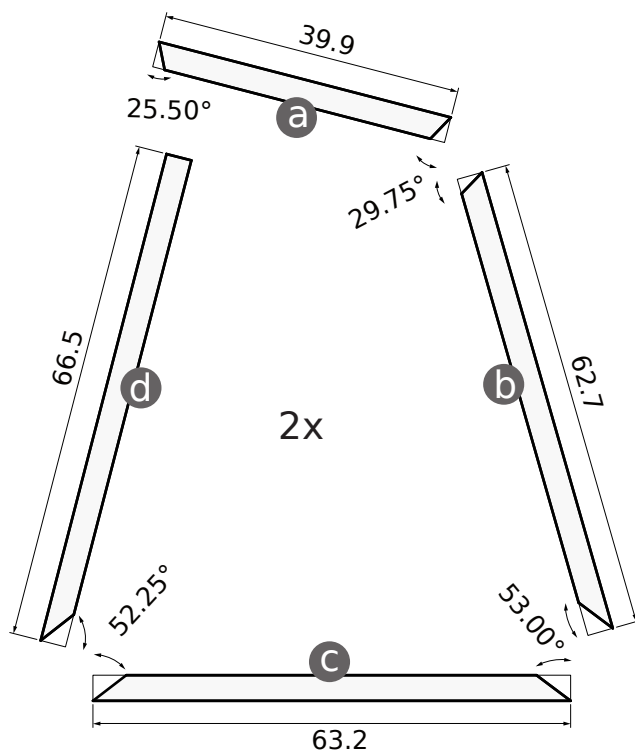
## BINDER 44/21



### BINDER 44/21

Cutting Pattern

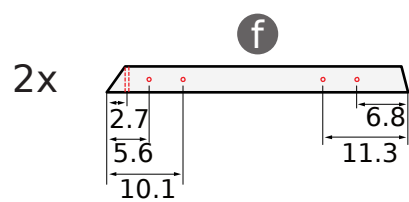
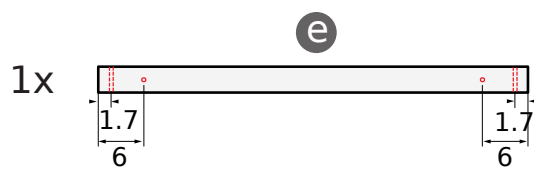
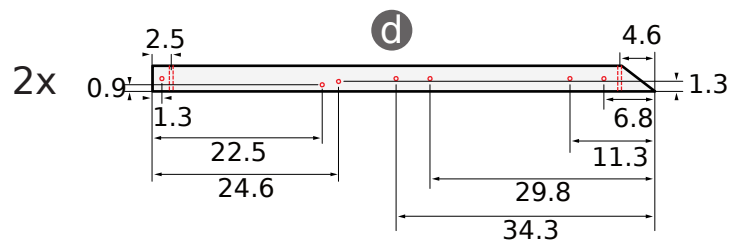
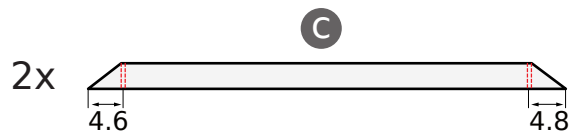
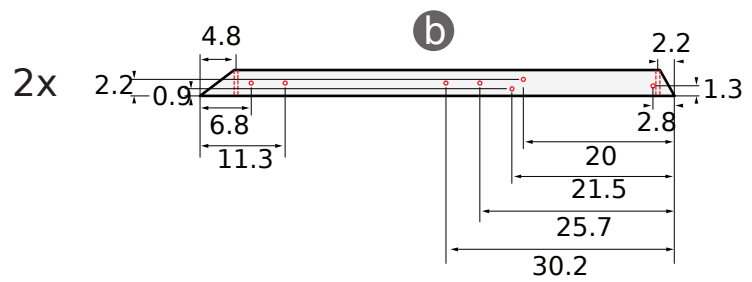
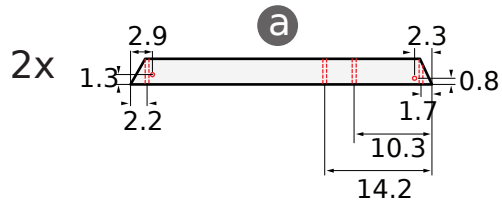


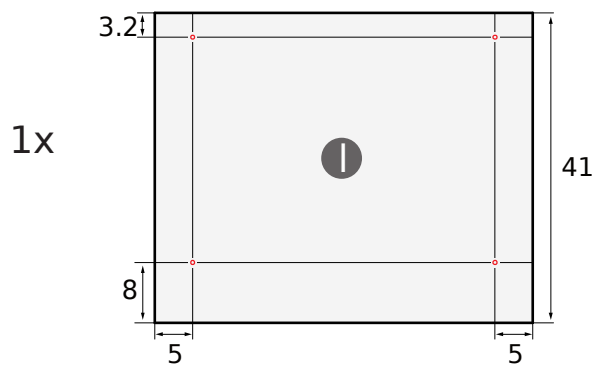
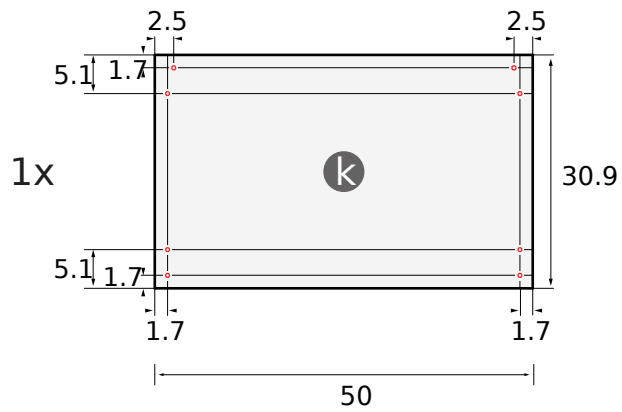
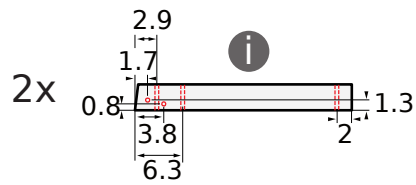
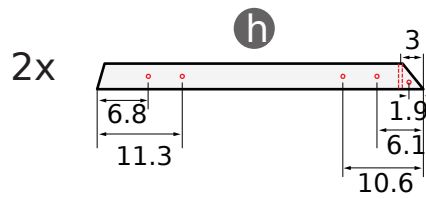
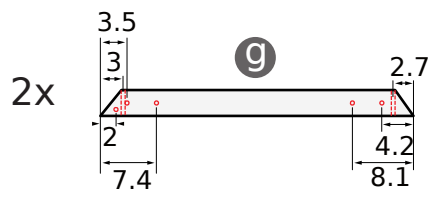




## BINDER 44/21

### Drilling Plan





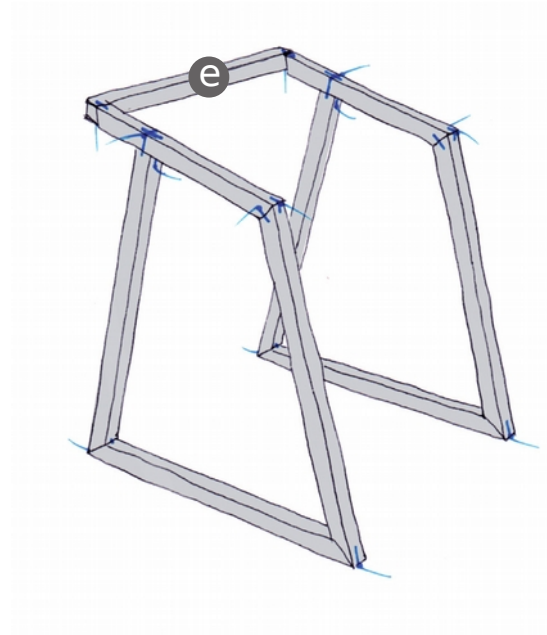
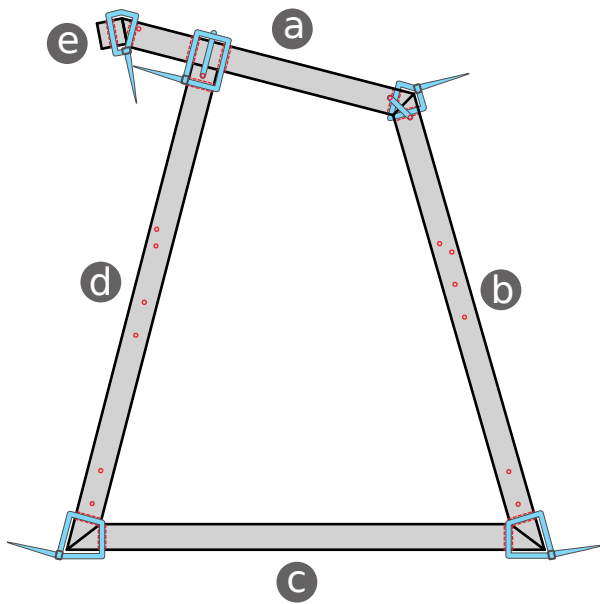


## BINDER 44/21

### Assembly Instructions

1

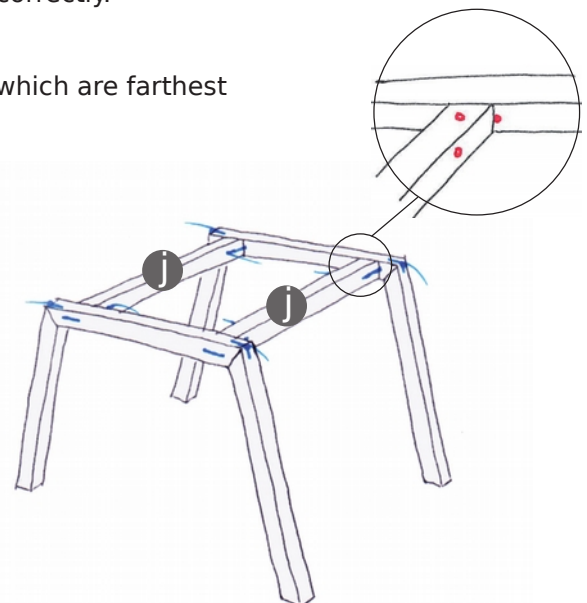
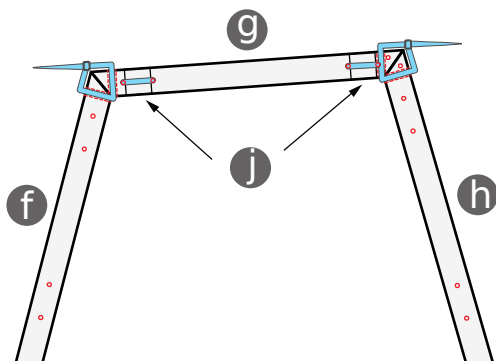
Join the parts **a**, **b**, **c** and **d** together to form two matching frames. Put both frames up and fix the cross piece **e**. The outer frame is complete.



2

Join the parts **f**, **g**, **h** and **i** together to form two matching frames. Pay particular attention to the drill holes to make sure the parts align correctly. Join both frames to part **j** to form the inner frame.

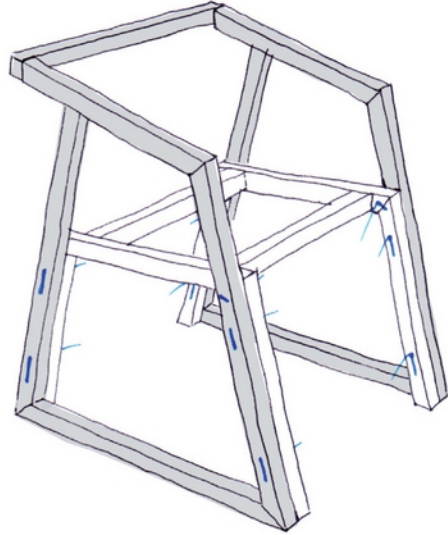
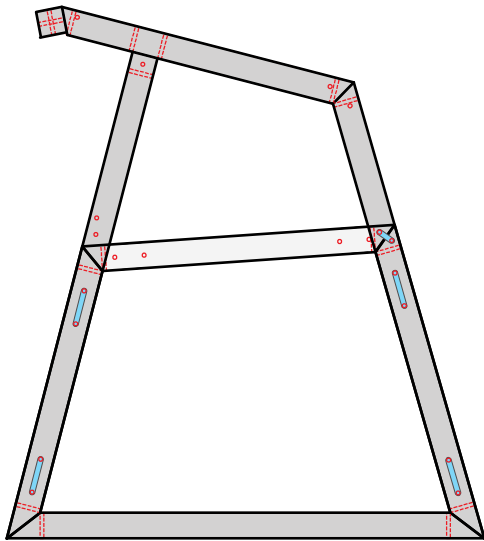
**NOTE:** Part **i** should be turned so that the drill holes which are farthest outside point upwards.



3

Join the outer frame to the inner frame at the five points marked blue.

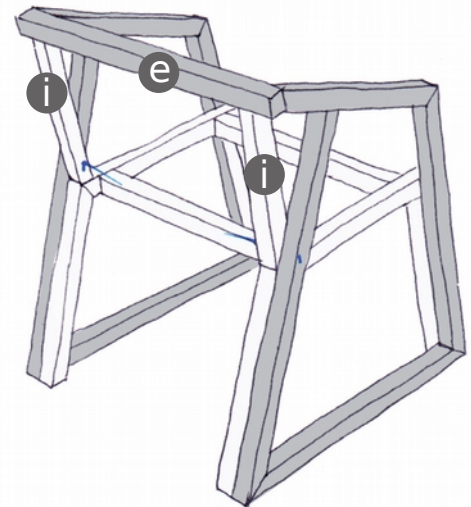
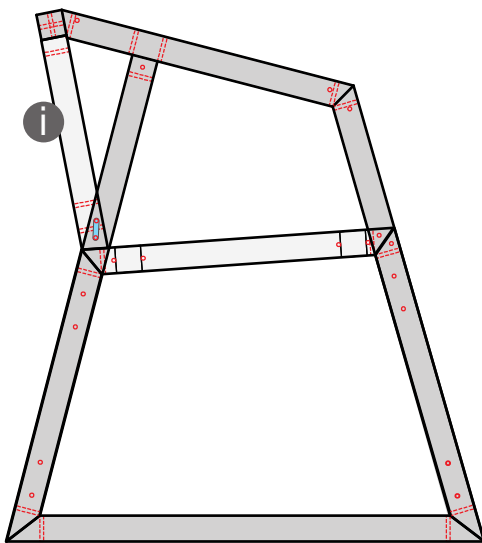
**NOTE:** Pull the cable tie tight only after you have threaded the cable tie through all the individual drill holes.



4

Now insert both crosspieces and join them at the marked points to the outer frames.

**NOTE:** Part **i** is asymmetrical. The slanting side faces the inner frame. The parts should be aligned so that they form a support between the inner frame and the crosspiece.





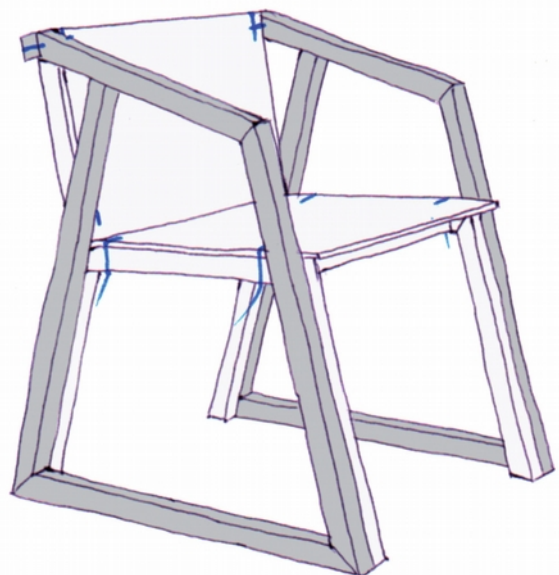
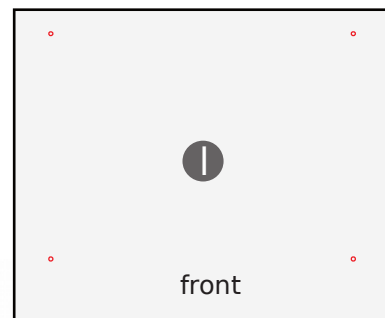
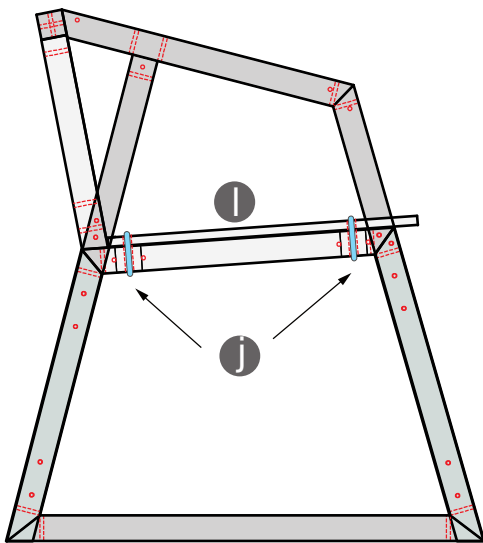
## BINDER 44/21

### Assembly Instructions

5

Place the sea<sup>1</sup> on the inner frame so that the drill holes are aligned with those in the crosspiece<sup>1</sup> below and fix it with cable ties.

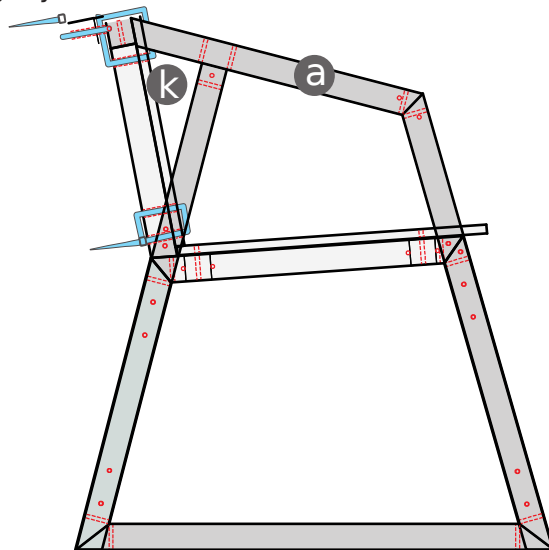
**NOTE:** Here, too, the cable ties should be threaded through first, but not pulled tight until there is one in each drill hole.



6

**STEP 1:** Thread the cable tie through the crosspiece , through the backrest and then back again through the second hole.

**NOTE:** Don't pull the cable tie tight yet.

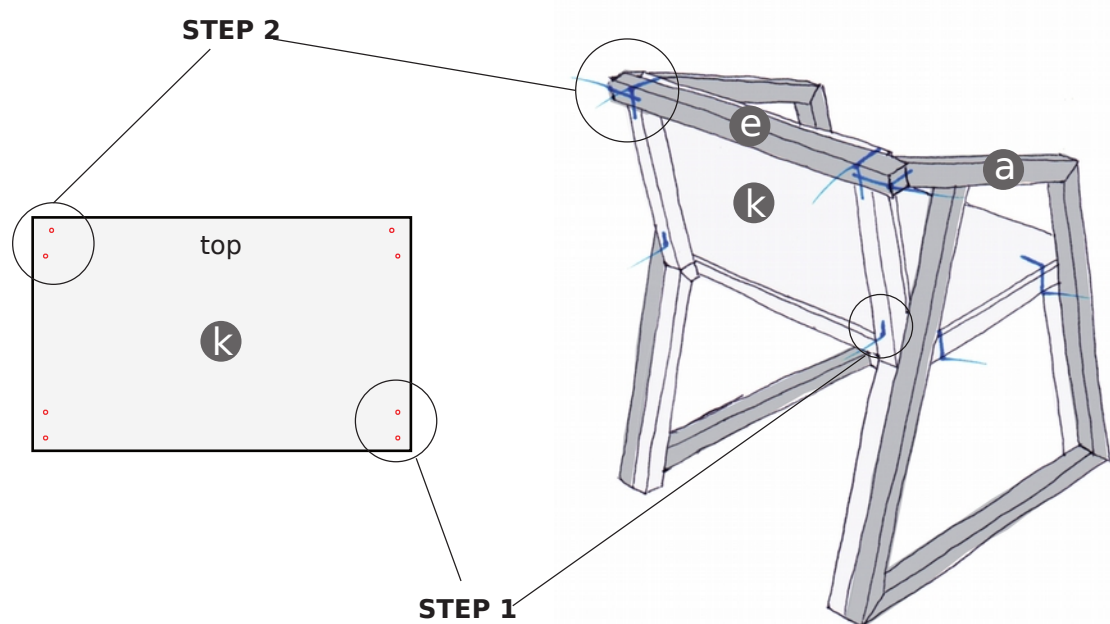


**STEP 2:** This corner should be fixed with two cable ties. The first one goes laterally through part , then through the upper drill hole in the backrest , and finally through the crosspiece .

**NOTE:** The cable tie can be fixed lightly at the corner, but it should not be pulled tight yet.

The second cable tie goes through the crosspiece , through the drill hole in the backrest , then over the crosspiece and back again.

After **STEP 1** and **STEP 2** have been completed, the cable ties can be pulled tight.



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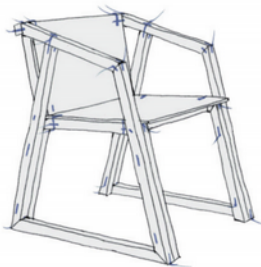


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[WWW.CREATIVEREGION.ORG](http://WWW.CREATIVEREGION.ORG)

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Organization: Magdalena Reiter, Georg Tremetzberger  
Graphics: Michael Holzer