OPITEC

114.653

Aluminum Sliding Bevel

Required Tools:

Coping Saw, Fretsaw with Metal Saw Blade
Metal Drill ø 3,3 / 4,5 / 6,0 mm
Countersink HSS (5 – 15 mm)
Tap Drills M4 + M6
Engineer's File
Screwdriver
Oil

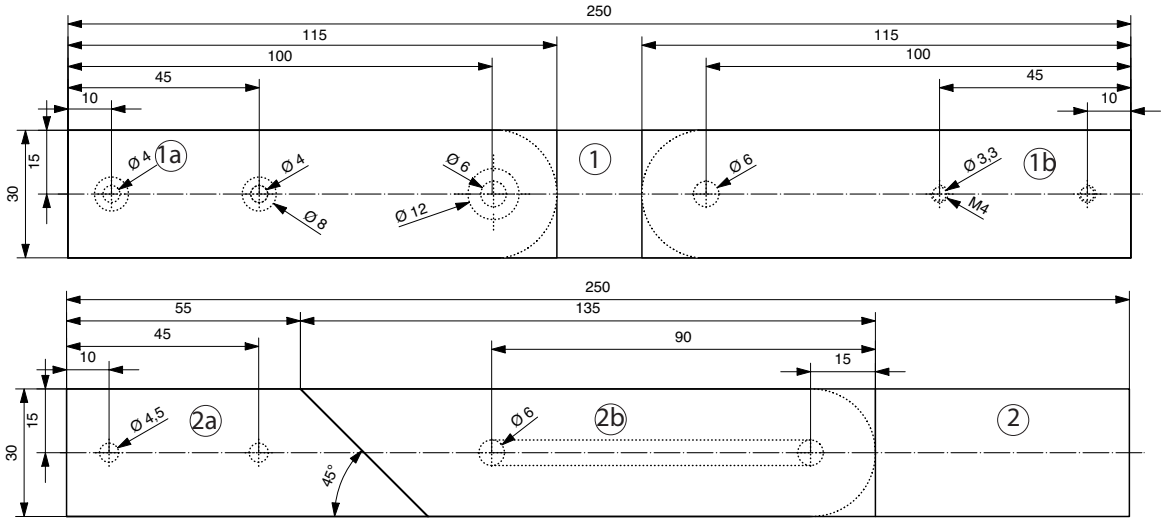
Please Note

Finished projects of OPITEC handicraft kits are not play toy articles in the same sense as general commercially available ones, but rather are intended as teaching and learning material supporting educational objectives. The content of this construction kit may only be built and used by children and adolescents under the guidance and supervision of qualified adults. Not suitable for children under 36 months. Risk of suffocation!

PARTS LIST				
Aluminum Flat Bar	1	250x30x4	Exterior Parts	1
Aluminum Flat Bar	1	250x30x2	Interior Parts	2
Countersunk Screw	1	M6x16	Attachment	3
Countersunk Screw	2	M4x10	Attachment	4
Wing Nut	1	M6	Attachment	5

Instructions

1.Transfer template A (page 5) to the aluminum flat bar (1) 4 x 30 x 250 mm. Cut parts 1a and 1b to length with the coping saw and deburr the edge with the engineer's file.
Note: add a drop of oil while sawing!
Transfer part 2a from template B (page 5) to the aluminum flat bar (2) 2 x 30 x 250 mm and cut to length. Then transfer part 2b and cut to length.

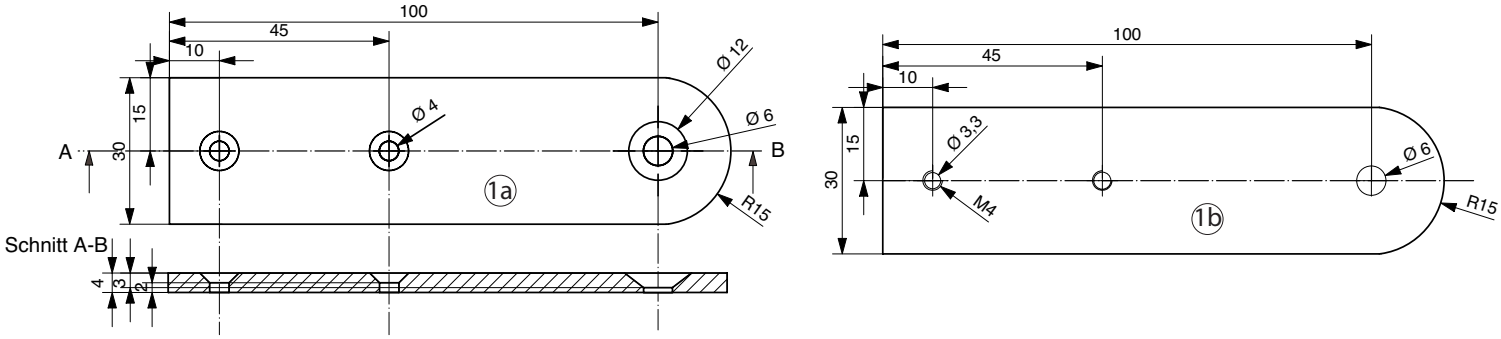


2. With the coping saw roughly saw the curved cuts of parts 1a and 1b according to template A (page 5) and round off with the engineer's file.
For this place the two parts one upon the other and fix with adhesive tape. Drill through the two ø 3,3 mm holes and the ø 5 mm hole. Then separate the two parts again.

Drill out the ø 3,3 mm holes in part 1a to 4 mm and chamfer with a countersink approx. 2 mm deep. The ø 6 mm hole chamfer with the countersink to a depth of approx. 3 mm.

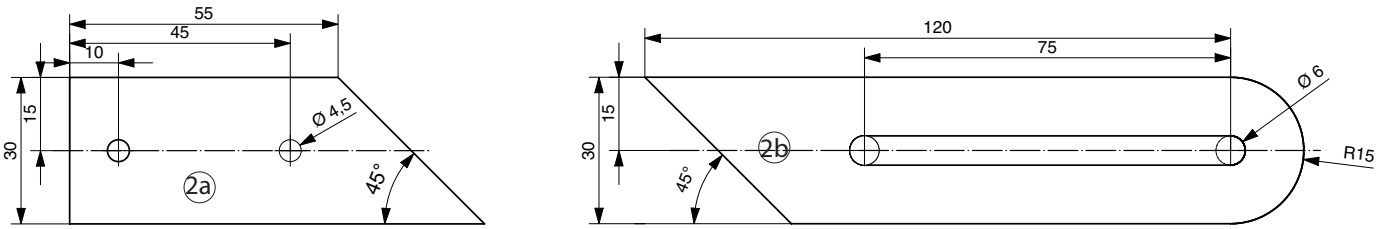
Into the boreholes of ø 3,3 mm (part 1b) cut a M4 thread each.

Note: Make sure to observe the dimensions!



3. Drill through the ø 4,5 mm boreholes in part 2a and deburr the part neatly.
According to measures (as shown in the drawing) drill through the two boreholes ø 6 mm in part 2b. Mark a line from one hole to the other. Take the fretsaw with a metal saw blade and saw along this line to finally achieve a slot of 6 mm. According to the drawing round off one end and neatly deburr part 2b.

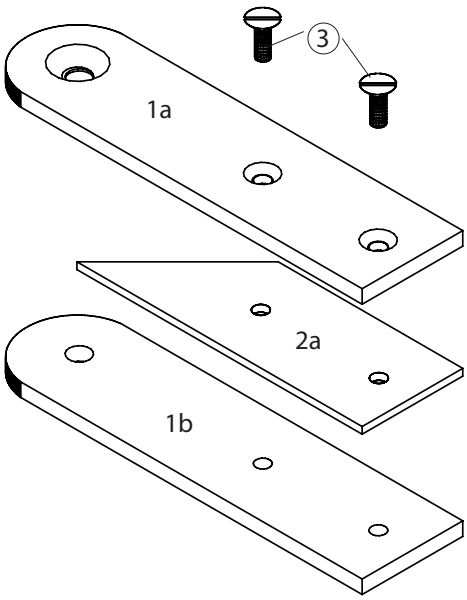
Note: Make sure to observe the dimensions and angles!



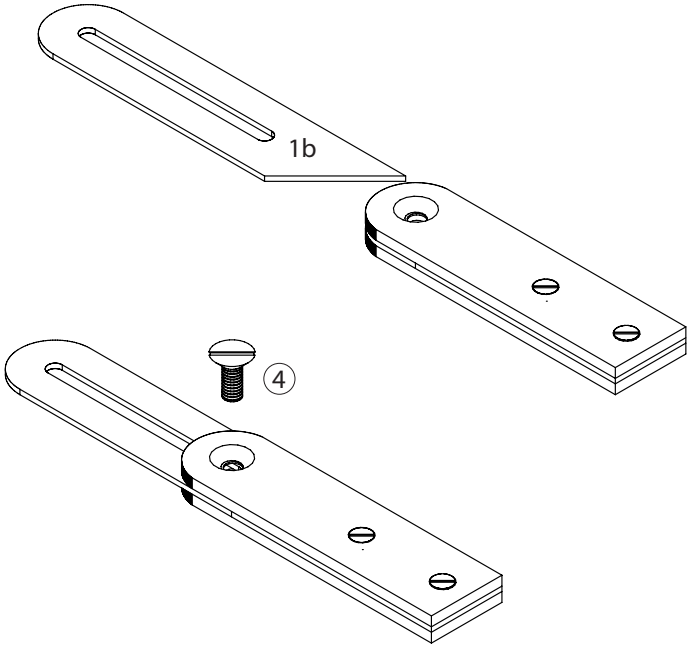
Instructions

Assembly:

4. Place the parts 1a, 1b and 2a one upon the other as shown in the drawing and screw together with the threaded screws (3).

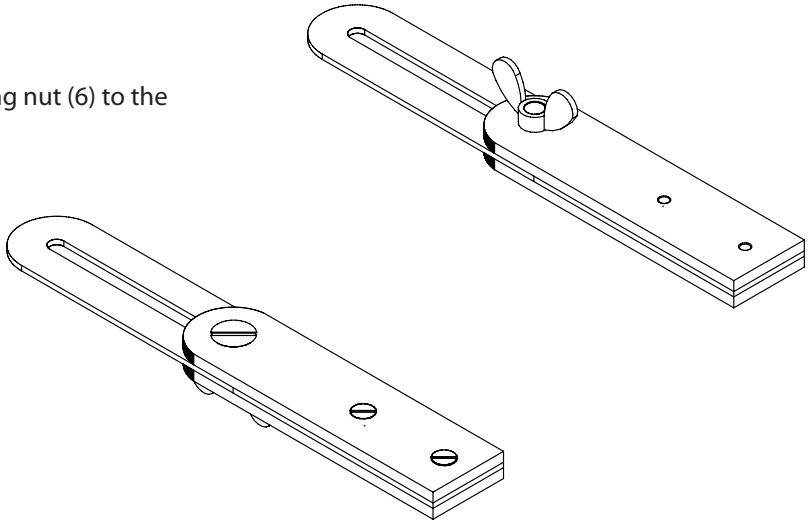


5. Insert part 1b into the opening of the connected parts 1a – 2a as shown and put the threaded screw (4) into the ø 6 mm hole.



6. Turn the work piece and screw down the wing nut (6) to the threaded screw (4) as shown.

Done!



Instructions

Templates Aluminum Strips
M1:1