

FixPad - Create and Assembly instructions

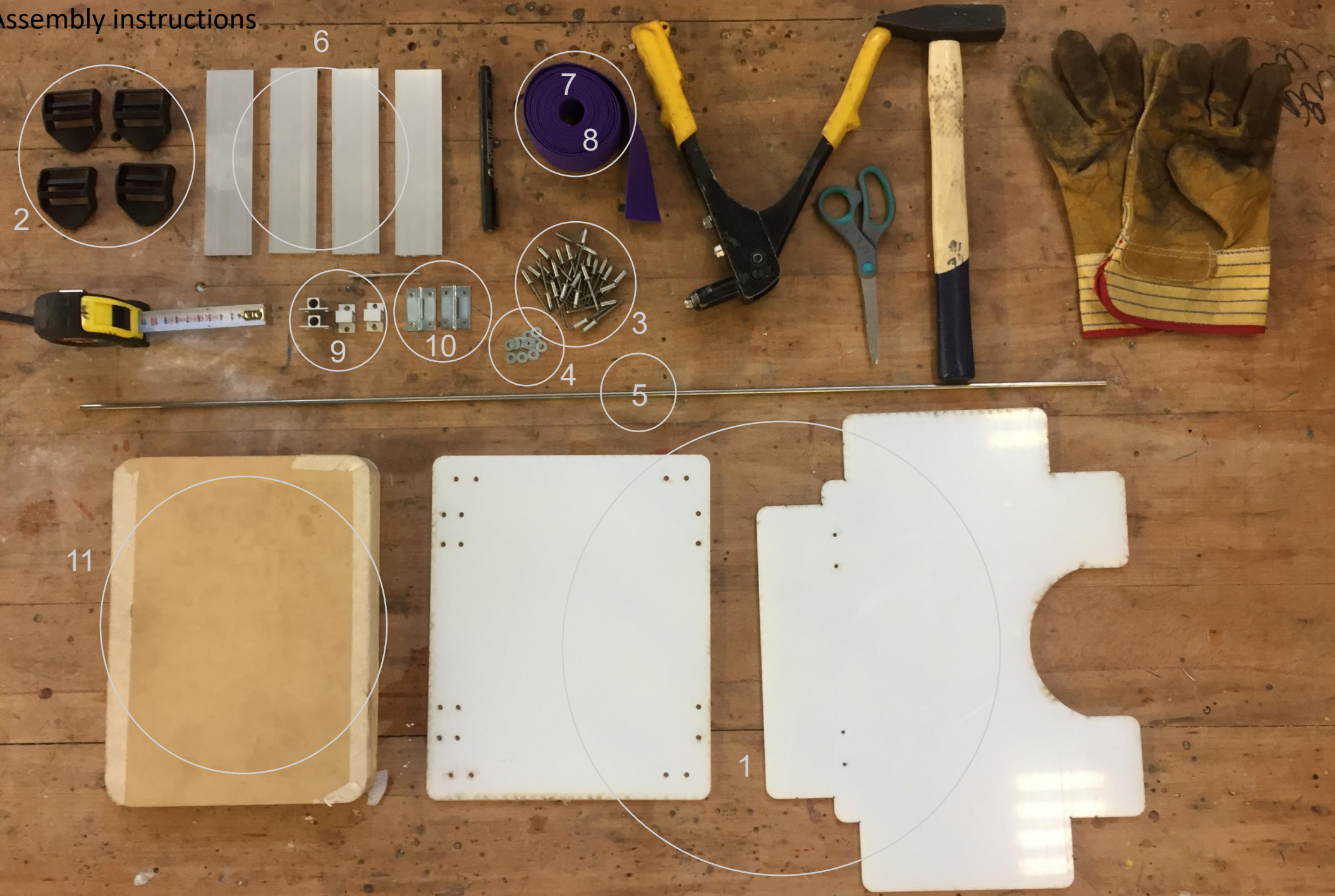


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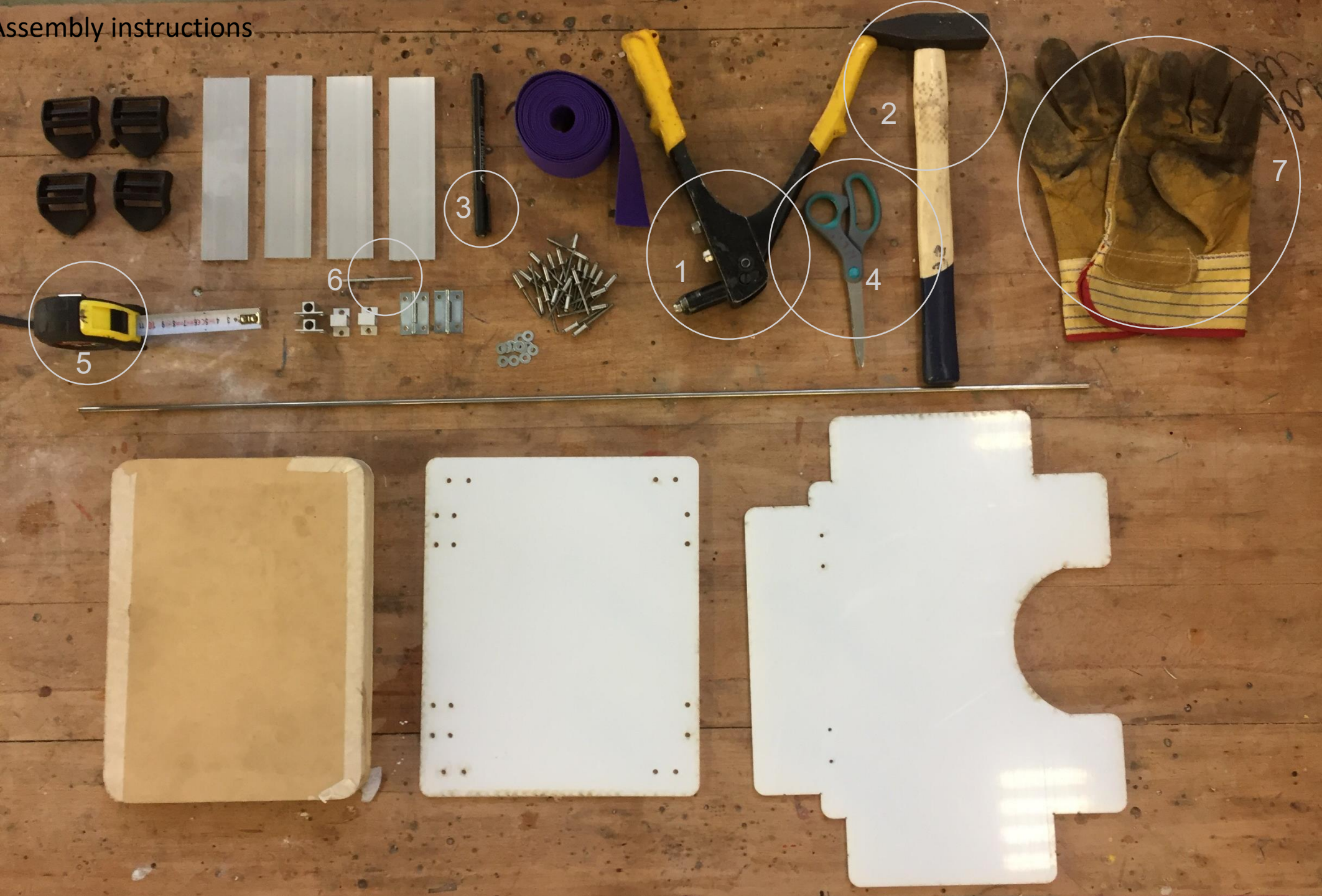
## B.o.m- Bill Of Materials

Part No.	Part name	Production technology	File name	Martial	Info	Number of parts	Supplier
1	persex sheet	Laser cutting , bending	Flat pattern – base Flat pattern - fixpert new	perspex	5 mm , 60X60 cm	1	Plastic store
2	backpack clips			plastic	fitting for a strap 4 cm wide	4	Sawing store
3	rivets			Metal	4 mm diameter	24	Hardwar store
4	Washers			Metal	The hole should be fitting for 4 mm diameter	12	Hardwar store
5	Stainless steel rod	bending		Stainless steel	5 mm , 80 cm	1	Hardwar store Profile store \
6	Aluminum plates	bending		aluminum	Size: 4X15 cm, thickness: 3 mm * You can also find a ready profile in this size	2	Metal Profile store
7	Nylon straps			Nylon	4 cm wide 14 cm length	4	Sawing store
8	Nylon straps			Nylon	4 cm wide 45 cm length	4	Sawing store
9	squared profiles with a hole			aluminum	the hole needs to be 7 mm and the square can be any size we used 1X1 cm	4	Hardwar store\ Profile store
10	axes			Metal	with holes of 4 mm	2	Hardwar store
11	Tablet sized wood model	Cutting, sanding		wood	We used 28X21 cm , 2.5 cm thickness	1	Wood workshop



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- Tools:
- 1. Rivets puller
  - 2. Hammer
  - 3. Marker
  - 4. Scissors
  - 5. Meter\ ruler
  - 6. A large needle\ metal rod not thicker than 4 mm
  - 7. gloves



You also need:

Heating stripe

90 degree bender

Driller + drill of 4 mm

Clamps

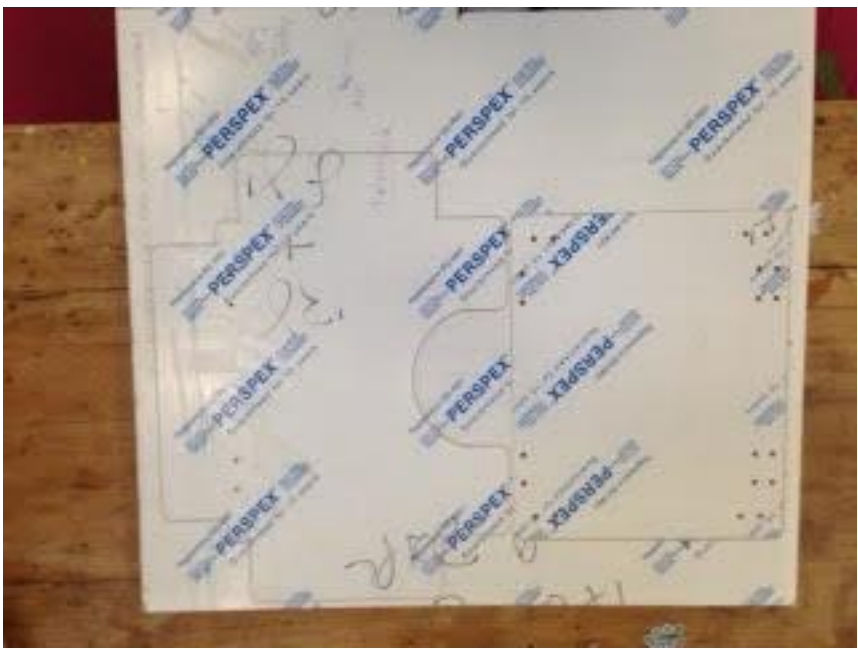
Flame welding machine

Lighter

- In many cases you can ask for professional banding of Perspex wherever you buy it. (no need for heating stripe)
- You can use a professional to bend the both the rod and the aluminum. ( no need for flame welder or 90 degree bender)
- The aluminum you can find ready in the correct measurements in a profile store. ( no need for a 90 degree bender)

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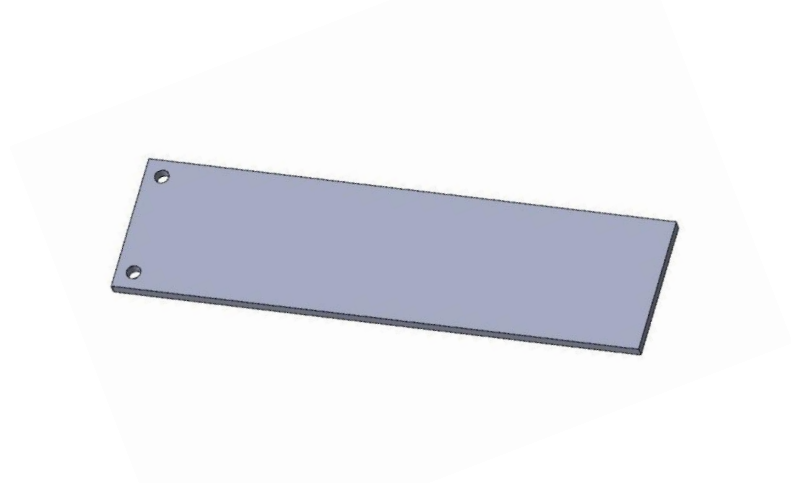
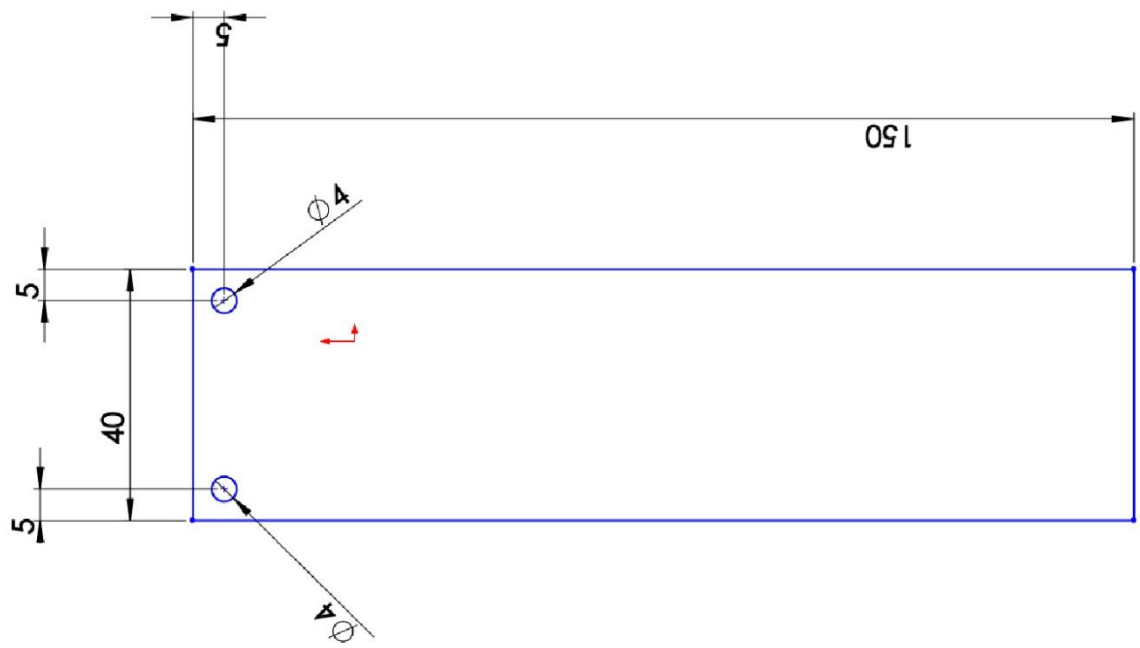
1. Laser cutting the perspex (dxf is attached)





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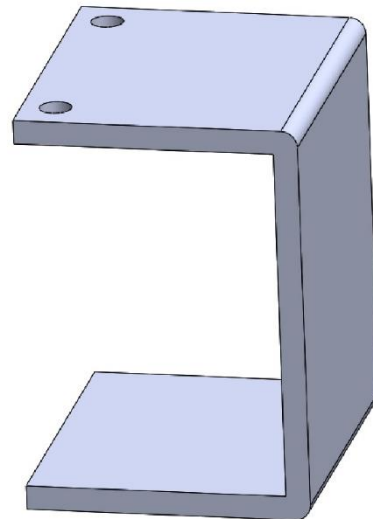
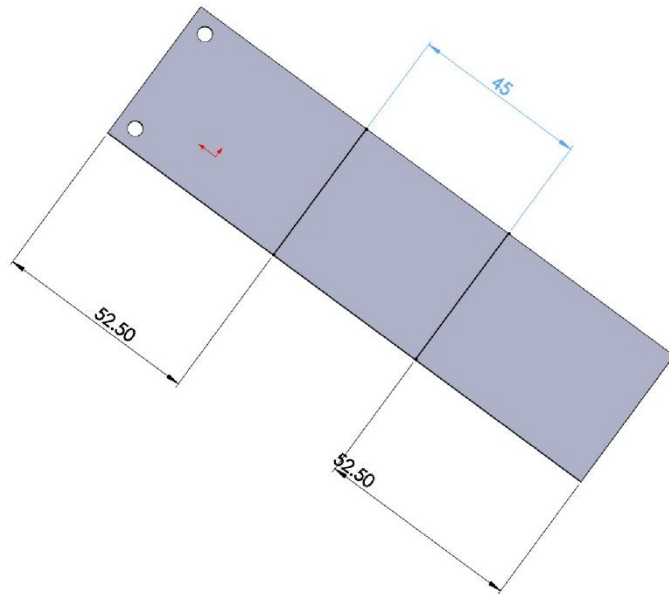
2. Mark the aluminum pieces : mark 2 dots for drilling on each piece , the dots should be located 5 mm from each side (upper side and the sides)  
Drill the dots (4 mm)





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3. Mark the aluminum pieces for bending: 2 stripes 5.25 cm from each end , so you get between them 4.5 cm. (this is the tables width you can change it accordingly to your table)  
Bend each mark of the aluminum pieces to 90 degree (you should bend a bit more to get 90 degree because of the spring back phenomena)

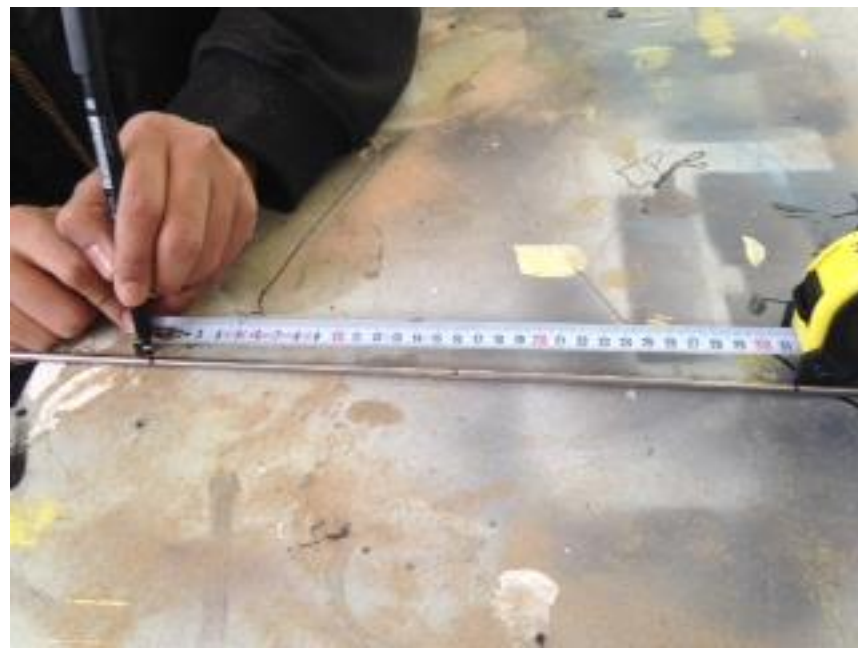
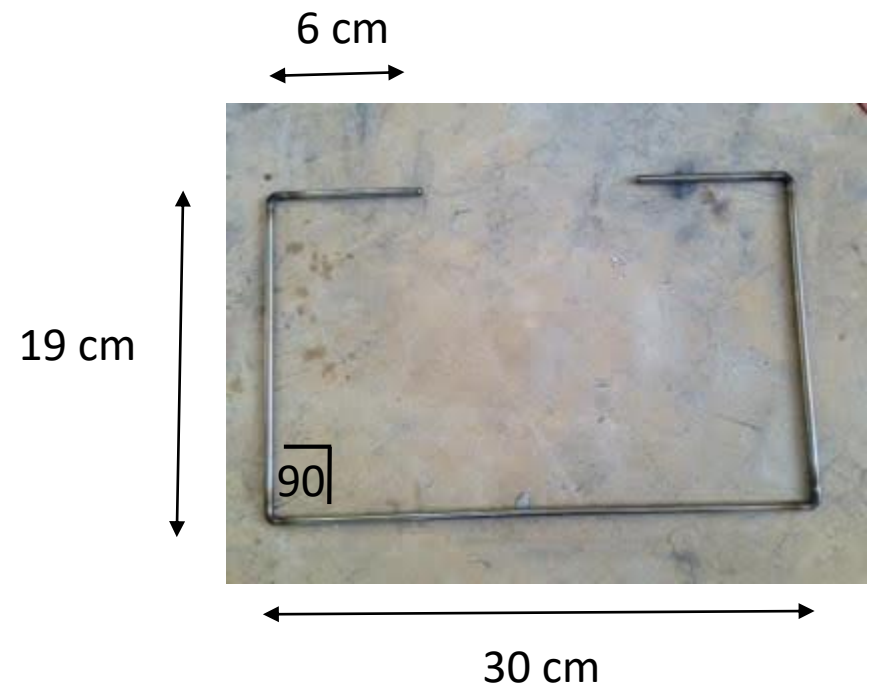


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## 4. Bending the rod:

Mark the rods mid point. Now mark the bend points- from the mid point 15 cm to each side (total 30 ) clamp the rod to the table , using the flame welder worm up the rod as marked and bend to 90 degrees , do this for the second mark too. Cool down the metal. Mark 2 more bends 19 cm from each corner and bend them in the same way creating an open frame.

\* You can use a professional for this part if needed





5. Cutting the straps:

Cut the strap to 8 parts:

4 straps- 14 cm long

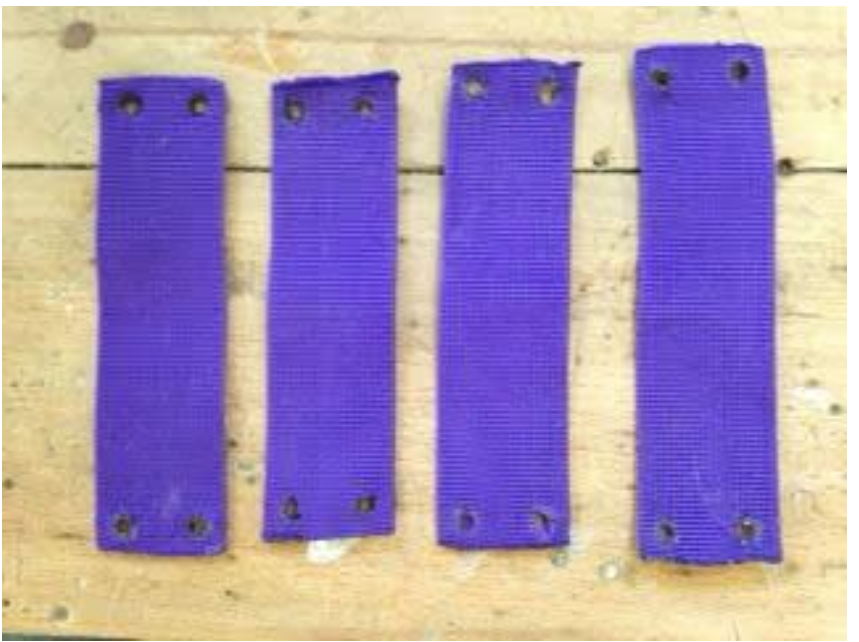
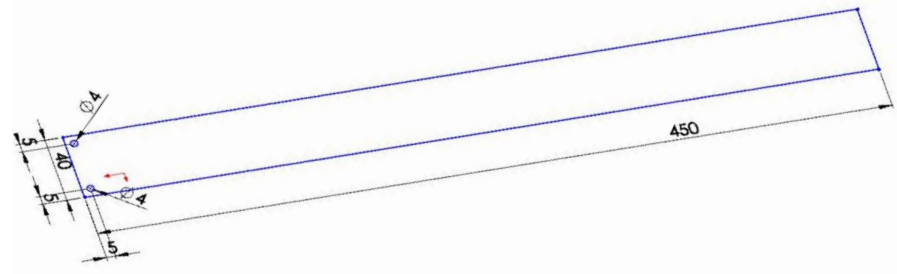
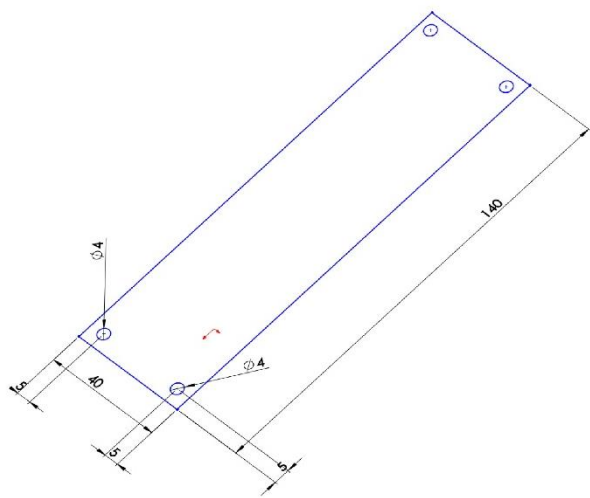
4 straps- 45 cm long

\* Can be adjusted to the table



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6. Make holes:  
In the 4 shorter straps- 4 holes 5 mm distance from the edges  
5 mm distance from the edges  
In the 4 longer straps- 2 holes  
With a lighter worm up the needle\rod and then pierce the strap





7. Burn the edges to prevent unpicking



8. Connecting the axes:

Contact the axe to the upper part using rivets and a puller. Contact both axes in the same direction , when the axe itself is pointed to the edge





9. bending:

Take the upper part and warm up the area of bent (marked with dots) bend into a frame using the wooden model

\* You can use a professional for this



10. Rod axe:

Warm up the perspex upper part as marked, put the bended rod on it and bend the perspex until the rod is locked inside

\* You can use a professional for this



11. Connect the straps:  
Take the bottom part of the perspex and the smaller straps. Put a backpack clips on each strap. Put each strap beneath the bottom part, put a washer and connect with a rivet





12. Connect profiles:  
The profiles should be placed  
at the holes in the edges so  
their hole will face the sides.  
Connect with rivets



13. Connecting upper and bottom parts:  
Align the axis with the holes left.  
Put a washer from the other side  
and connect with rivets



14. Connecting the longer straps:  
Put each strap beneath a bended  
aluminum piece hole to hole and  
.connect with rivets





15. Final stage:  
Fix the longer straps to the  
backpack clips

