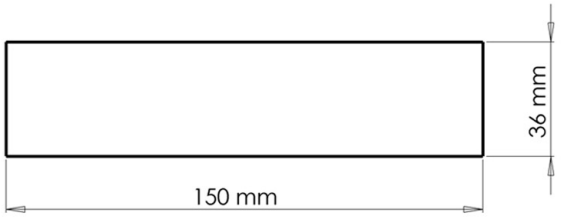
1.

Materials: Polypropylene sheet – 0.8 mm thick.
Tools: Cutting knife; Ruler.



Cut a rectangle out of the polypropylene sheet, as shown in drawing A.



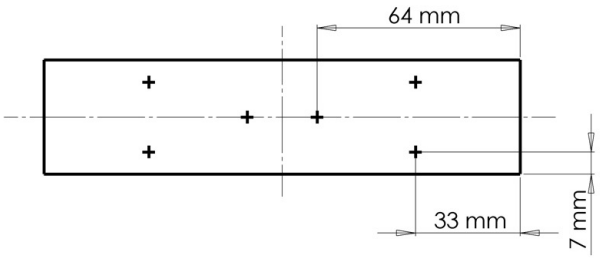
Drawing A

2.

Tools: Awl; Hammer; Hand drill; Drill bit 1.5 mm diameter.



Use an awl to mark points in the center of each cross appears in drawing B (the drawing is vertically and horizontally symmetric).
Drill holes, using the points you have marked as center points.



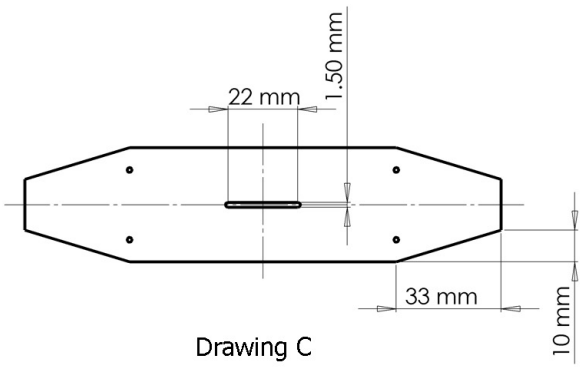
Drawing B

3.

Tools: Cutting knife; Ruler.



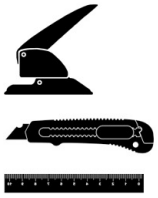
Cut the polypropylene as shown in drawing C.



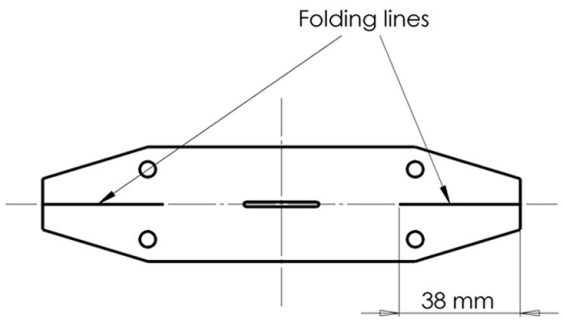
Drawing C

4.

Tools: Hole-puncher; Cutting knife; Ruler.



Use a hole-puncher to expand the four remaining holes.
Use a cutting knife to mark folding lines as shown in drawing D (put just enough pressure to penetrate about half of the polypropylene's thickness).



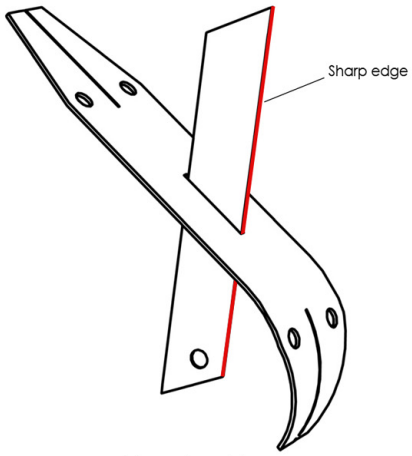
Drawing D

5.

Materials: Conventional 18 mm (8 snap off segments) knife blade.
Tools: Protective gloves.



Wear protective gloves and carefully pass one blade through the polypropylene, as shown in drawing E. Make sure the blade's sharp edge is in the correct position.



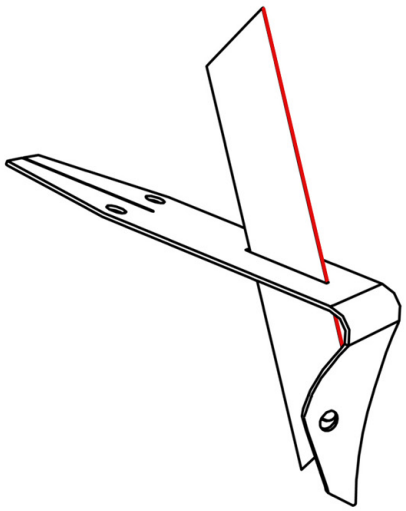
Drawing E

6.

Tools: Protective gloves.



Carefully bring two edges of the polypropylene close to one another, meeting the two sides of the blade (see drawing F).



Drawing F

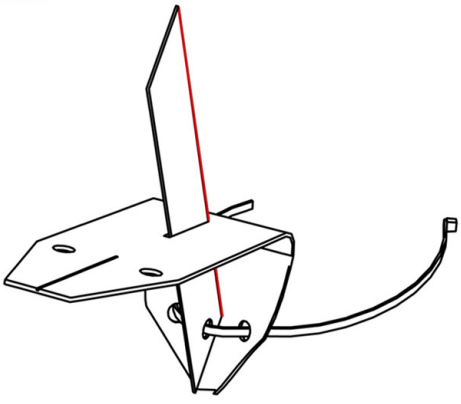
7.

Materials: Self-locking nylon cable tie.
Tools: Protective gloves; Cutter.





Insert a cable tie through the three holes (two holes of the polypropylene and one hole of the blade, see drawing G) and lock the cable as tighter as you can. Cut the extra cable tie with a cutter.



Drawing G

8.

Tools: Protective gloves; Cutter.





Repeat stages 5 to 7 with additional knife blade and self-locking cable tie. Make sure the additional blade is positioned correctly (its sharp edge should face the opposite direction of the first blade's sharp edge).
Your scissors are ready to cut!

