# Cat-Litter-Box

This project is distributed under the GPL v3.
Oversized 3D printed parts (doors) are optimized for the Prusa MINI printer.
This project was created in cooperation with Monelline.
To download the entire package, click on CODE > Download ZIP.

# Parts

- Euro Box 60x40x42 cm (with or without lid)
- 5mm thick plexi glass
- Screw DIN 7985 M3x10 - 30 pieces
- Screw ISO 7380 M8x10 - 6 pieces
- Nut DIN 934 M3 - 28 pieces
- Wire mesh (I used wire mesh with 10mm holes) 3D printed parts: mriezka_3D_tlac - 2 pieces and back and front - 1 piece of each
- Transparent office foil
- 3D printed part: door_bottom - 1 piece
- 3D printed part: door_top - 1 piece
- 3D printed part: door_joint - 1 piece
- 3D printed part: door_joint_mirror - 1 piece
- 3D printed part: leg - 6 pieces
- 3D printed part: plexi_holder - 4 pieces
- 3D printed part: plexi_90deg_holder - 6 pieces

# Manufacturing process

1. Cut and drill holes in the Euro Box based on the drawings. There are also 1:1 drawings on A3 papers that you can print, cut out and use for easy marking on the box.
2. Cut plexi_wall_1 and plexi_wall_2 according to the drawings. There are also 1:1 drawings.
3. Cut the thread into door_joint and door_joint_mirror according to drawing.
4. Cut the thread into leg according to drawing.
5. Glue the door_bottom and door_top with a second glue.
6. According to the notch in the door, cut out and glue the transparent office foil with a second glue.
7. Install all plexi_holders on the box.
8. Install 4 pieces of plexi_90deg_holders on the box.
9. Screw the bolt into the thread in door_joint and door_joint_mirror.

10. Install one of the joint on the box.
11. Complete the door assembly and install the second joint on the box.
12. Complete wall assembly (plexi_wall_1, plexi_wall_2, plexi_90deg_holder)
13. Cut a mesh with an approximate size of 360x185mm. Assemble the printed parts of the grid.
14. Tighten the legs to the mesh with the screws.
15. Insert mesh into the box.
16. Insert plexi_wall assembly into the box.