Cat-Litter-Box

This project is distributed under the GPL v3.

Oversized 3D printed parts (doors) are optimized for the Prusa MINI printer.

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)
- 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.
14. Tighten the legs to the mesh with the screws.
15. Insert mesh into the box.
16. Insert plexi_wall assembly into the box.