FenceParasite

**ASSEMBLY INSTRUCTIONS: M1_COMBO**

The FenceParasite street furniture is conceived as an Open-Source project. The following instructions and attached .dxf files are intended for use by individuals. The all designs and files are the copyright property of Designers Cathy Smith and Rowan Olsson and may not be used or redistributed for resale or to create products for resale. The M1 designs are the first prototype models. They appear to work so far but they are still being field tested. We accept no responsibility for damage caused to a machine running the file provided. Ensure it imports correctly and is scaled and oriented appropriately.

The FenceParasites are designed to be cut out of 2400x1200mmx17mm Form-Ply using a CNC ROUTER. We recommend the use of high grade ply to avoid delamination during processing. 18mm thickness should work but this has not been tested. It is designed to be cut with a 6.35mm diameter bit. NOTE: IF A CNC router is not available template could be cut by hand using a jig-saw, circular saw and or track/plunge cut saw. This should work fine for the TABLE however the Stools require high accuracy to ensure the legs touch evenly. Good luck.

CNC TEMPLATE.

1. OPEN THE .DXF TEMPLATE IN THE CNC ROUTER’s NATTIVE SOFTWARE.
2. POSITION AT THE ORIGIN and ORIENT THE FILE TO SUIT THE MACHINE BED.
3. CHECK THE SCALE. The bounding box should measure 2400x1200. Rescale if necessary. **Delete the box representing the sheet edge before running the machine.**
4. SET THE ROUTER TO CUT OUTSIDE OF LINE. The template is designed to provide minimal waste and hence the space between components is exactly the thickness of the chosen router bit. This means that the router will often pass through same path twice. This creates the potential for the pieces to move and be miss-cut. In testing our machine provided strong suction and the software provided an option to leave short tabs between pieces. We had no issue with pieces moving.
5. **NOTE:** If a different diameter router bit is to be used the components will have to be manually repositioned to accommodate. This may not result in the same sheet efficiency.
6. SET THE ROUTER TO LEAVE TABS BETWEEN COMPONENTS. 15mm long tabs 1 mm thick were left to help keep components located during routing.
7. POSTION AND CLAMP THE SHEET. A 20mm offset boarder has been allowed for clamping **NOTE:** During testing the dust extraction shroud around the router fouled on one of the clamps even though it was within the 20mm boarder. We recommend you look at the template and try to locate clamps were the cutting path is not close to the boarder.
8. RUN THE PROGRAM.

ASSEMBLY

1. SAND OFF TABS LEFT FROM CNC PROCESSING. We used a disc sander were possible and a hand block and course garnet paper for tabs on hard to reach 'internal' edges. Careful handling the pieces as the laminate on Form-ply makes it pretty sharp when routed.
2. CHAMFER THE COMPONENT EDGES WITH A TRIMMER ROUTER. We used a 9.5 mm radius external chamfer bit in a small trimmer router. SEE PICTURES.
a. Set the depth of the bit so that the bearing contacts the centre of the material thickness ie 8.5 mm down from surface. This is so that both edges can be routed evenly.

b. If you don’t have a trimmer router or can’t be arsed doing it just take off the sharp edge with a block and garnet paper

c. Not all edges are to be routed. Edges that will butt into the surface of other components MUST be left square.