BUILDING INSTRUCTION FLL FOLDING TABLE

In addition to the FLL game table, which is not separable, you find here a manual to build an FLL folding table. The table can be folded to save space, at the end it has the following dimensions: approx 122 x 81 x 32 cm.

For questions and suggestions please contact Fränzi Ronneburger
fr@hands-on-technology.de.

Abb. 1
Material needed:

The following materials and tools you need. It is recommended to use laminated wood to build the table.

Hint: let all woods sawing at the hardware store - that saves time and nerves.

<table>
<thead>
<tr>
<th>Material</th>
<th>Quantity</th>
<th>Cost (Toom)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lumber-core plywood: 15 x 1223 x 814 mm</td>
<td>3</td>
<td>89.61 €</td>
</tr>
<tr>
<td>Scantling (glued wood): 40 x 80 x 814 mm</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Scantling (glued wood): 40 x 80 x 1143 mm</td>
<td>2</td>
<td>28.47 € (a 9.49 €)</td>
</tr>
<tr>
<td>Dummy (glued wood): 40 x 80 x 300 mm</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Woodscrew: 4 x 60 m</td>
<td></td>
<td>7.39 € / 100 St.</td>
</tr>
<tr>
<td>Woodscrew: 3.5 x 40 mm</td>
<td></td>
<td>7.79 € / 100 St.</td>
</tr>
<tr>
<td>Draw latch: 75 x 30 mm</td>
<td>4</td>
<td>27.96 € (a 6.99 €)</td>
</tr>
<tr>
<td>180° Hinge: 180 x 40 mm</td>
<td>4</td>
<td>13.96 € (a 3.49 €)</td>
</tr>
<tr>
<td>Paint: 2 in 1, black/matt</td>
<td>750 ml</td>
<td>15.99 €</td>
</tr>
<tr>
<td>Paint roller</td>
<td>1</td>
<td>6.19 €</td>
</tr>
<tr>
<td>Paint tray</td>
<td>1</td>
<td>1.99 €</td>
</tr>
<tr>
<td>Painters tape</td>
<td>1</td>
<td>3.95 €</td>
</tr>
</tbody>
</table>

A painter foil, protective gloves and sandpaper can be purchased if required.

Tools needed:

- Screwdriver with drill (3mm)
- 3 Clamps
- 4 folding trestle legs
- 4 wood stripes
- Sandpaper
- Protective foil
- Protective gloves and work clothes
- Plastic bag (for paint tray)
Building Instruction:

**Step 1**
- wood sawing at the hardware store (Hint: please use straight wood)
- Edit edges with sandpaper

**Step 2**
- Taping backs of boards (Hint: 750 ml paint are enough to paint everything twice if the back sides of the boards stay untreated)
- Paint boards, scantlings and dummy with black paint
  (Hint: use a paint roller for smooth surfaces, allow to dry paint well, during drying times, keep paint roller and paint tray in plastic bag — so both can be re-used.

**Step 3**
- Fix scantlings with clamps on the boards
- Pre-drill boards and scantlings
- Fix the scantlings with 2 screws to the board (Hint: let at least 10 cm from the outer edge – this prevents bursting of the wood and there is enough space to mount the hinges
- Secure board and scantlings with additional screws
- Fix scantlings with each other – 2 screws

**Step 5**
- Fix the dummy border in the middle of board B (Position see Figure 1) *It is there to simulate a second FLL table. During the tournament there are two teams at a time competing at two FLL tables fronting each other. There are mission models being placed in the center of the top of the inner field borders.*

**Step 6**
That the table can be folded, the hinges have to be places at specific points. (Position see picture 1)
- Connecting part A and B – screw the hinges under the board
- Connecting part B and C – screw the hinges on the scantlings

**Step 7**
- Attach draw latch on the outer sides of the scantlings over the joints, this stabilize the table in unfolded form.
  (Hint: Put this table on the long edges, bring the draw latch under tension - 1-2 mm, lay the wood strips on the floor while you attach the draw latches on the other side)

**Step 8**
The field plate is now finished. We wish you lots of fun practicing and tinkering!