

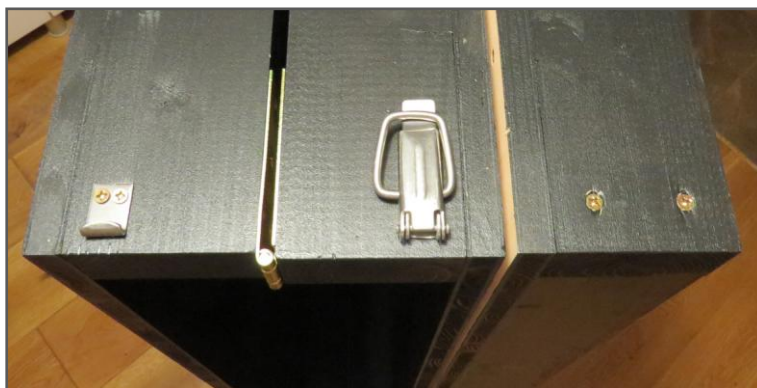
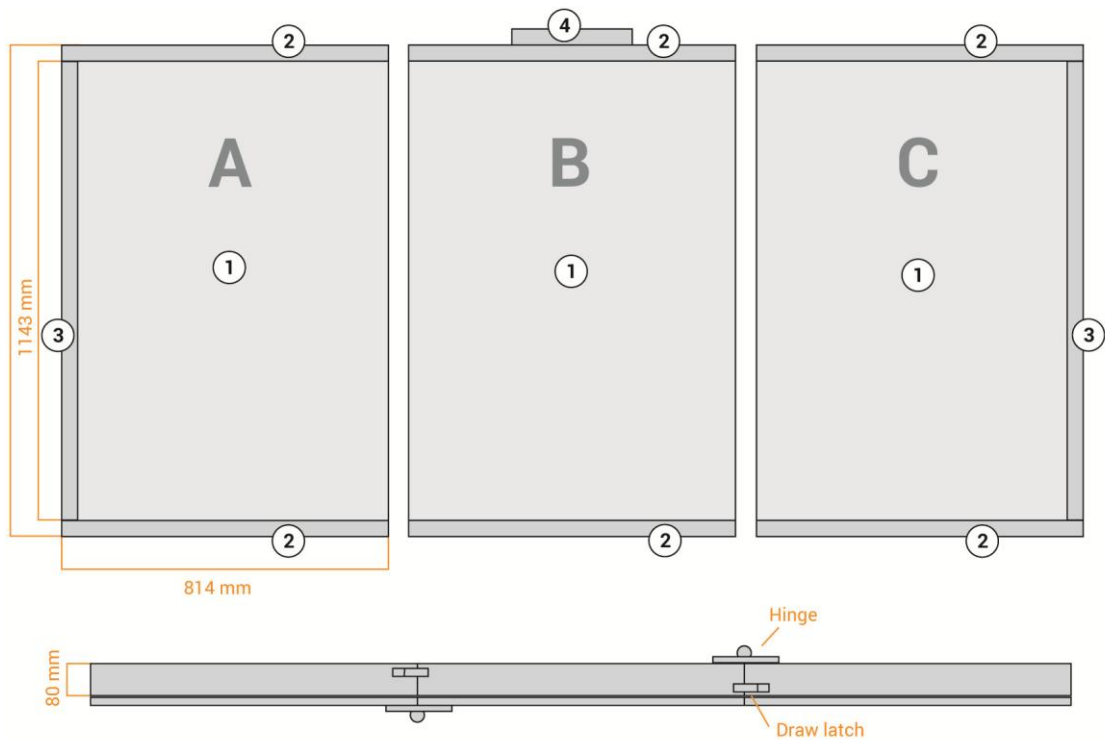


## BUILDING INSTRUCTION FLL FOLDING TABLE

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](mailto:fr@hands-on-technology.de).

Abb. 1



## Material needed:

The following materials and tools you needed. 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.

Material	Quantity	Cost (Toom)
①Lumber-core plywood: 15 x 1223 x 814 mm	3	89,61 €
②Scantling (glued wood): 40 x 80 x 814 mm	6	
③Scantling (glued wood): 40 x 80 x 1143 mm	2	28,47 € (a 9,49 €)
④Dummy (glued wood): 40 x 80 x 300 mm	1	
Woodscrew: 4 x 60 mm		7,39 € / 100 St.
Woodscrew: 3,5 x 40 mm		7,79 € / 100 St.
Draw latch: 75 x 30 mm	4	27,96 € (a 6,99 €)
180° Hinge: 180 x 40 mm	4	13,96 € (a 3,49 €)
Paint: 2 in 1, black/matt	750 ml	15,99 €
Paint roller	1	6,19 €
Paint tray	1	1,99 €
Painters tape	1	3,95 €
		<u>203,30 €</u>

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 clothes 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 backsides 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.)



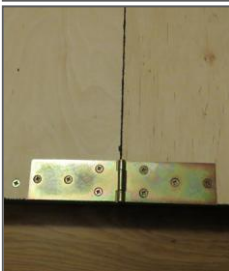
### Step 3

- 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!