How to building a "cheap" and folding Measurement-Box for the RC sailing class FOOTY

IMAGE 1) Finished Box

Material:

- 1 Plywood board 1200x400x5 mm, look **IMAGE 2**.
- 1 small hinge with short screws
- or screws how are cut to the board thickness

IMAGE 2) Starting Plywood board 1200x400x5 mm

Tools:

1. Metal or wood saw
2. Jigsaw
3. Pencil
4. Set Square
5. Long ruler, scale
6. File or sandpaper for wood

Building Instruction:

First board's preparation:

Let cut or cut yourself the following boards:
1. Tow side panels 305x335 mm (305 + 2 x 15)
2. Two end panels 305x183 mm (153 + 2 x 15)
3. One rudder measuring board 175x46 mm (from the remains, look IMAGE 3)

IMAGE 3) remain wood 305x60x5 mm

Making of the side boards:

1. Put the side boards' one over the other and mark from the end of the long side of the boards, a line of 15 mm and 152.5 mm depth. From this line make a parallel line of pull of the board thickness = 5 mm in the direction of the rim, see Image 4
2. First saw the line = the one closest to the edge is off up to a depth of 152.5 mm, than the inner lines.

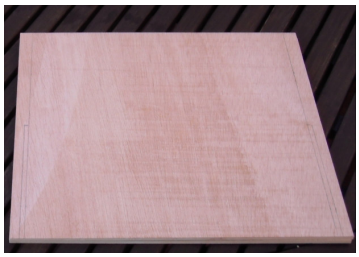

IMAGE 4) Marked side borad

3. To saw through the bridge in 152.5 mm depth.

Finishes are the TOW side boards!

Making of the front board:

1. Mark the middle line on the board.
2. Mark from the middle line 76,5 mm to each side up to 152,5 mm of depthless.
3. Mark in the difference of the board thickness = 5 mm a line in direction to the edge
4. First saw the line = the one closest to the edge is off up to a depth of 152.5 mm, than the inner lines.

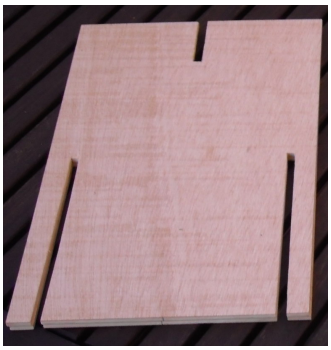

IMAGE 5) Front board finish sawed

5. To saw through the bridge in 152.5 mm depth.
6. Go from the middle line 3mm to each side and mark a line of 50mm depthless for the bowsprit.
7. To saw through the bridge in 50 mm depth.

Finish is the front board!.

Making of the rear board:

1. Mark the middle line on the board.
2. Mark from the middle line 76,5 mm to each side up to 152,5 mm of depthless.
3. Mark in the difference of the board thickness = 5 mm a line in direction to the edge
4. First saw the line = the one closest to the edge is off up to a depth of 152.5 mm, than the inner lines.
5. To saw through the bridge in 152.5 mm depth.
6. Go from the middle line 3mm to each side and mark a line of 200mm depthless for the rudder or bowsprit.
7. Mark a diagonal line of 45 Grad so that distance between the two diagonal lines is 50mm
8. Saw first the two sides up to 200mm and than the bridge in 200 mm.
9. Saw the two diagonal off.
10. From a remaining piece of the board (look IMAGE 6) cut off a board off: 175x46x5 mm.
11. Attach in the middle a hinge on the rudder board

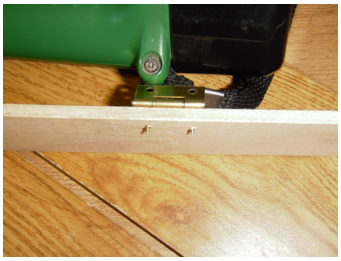

IMAGE 6) Hinge on the rudder board

12. Place the rudder board to the back of the rear board and fasten the hinge so that it is flush with the rudder board when it is opened (look IMAGE 7).


IMAGE 7) Rudder board open and closed

Finish is the rear board!

Mounting:

The front and rear board of the box are pushed from the top into the slots of the tow side boards and

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Have much fun recreating this box!