

The ijsurfing building guide

How to make your own IJssurf board.

My name is Paul Mooij and I'm Dutch windsurf fanatic. 8 years ago I learned of the sport by seeing it on a lake. 2 years ago I made my first board. And I had to wait 4 years to test my design. But on in 2009 my to do list in life became shorter.

This design is tested and I found out that it works... But being a technical nerd in the good way the design can be tweaked to perfection. See prototype for next year.....

First the checklist of parts and equipment:

I had the privilege of a whole technical workshop at my internship at HG-international so if you do things differently it's ok.... Be creative.

Parts:

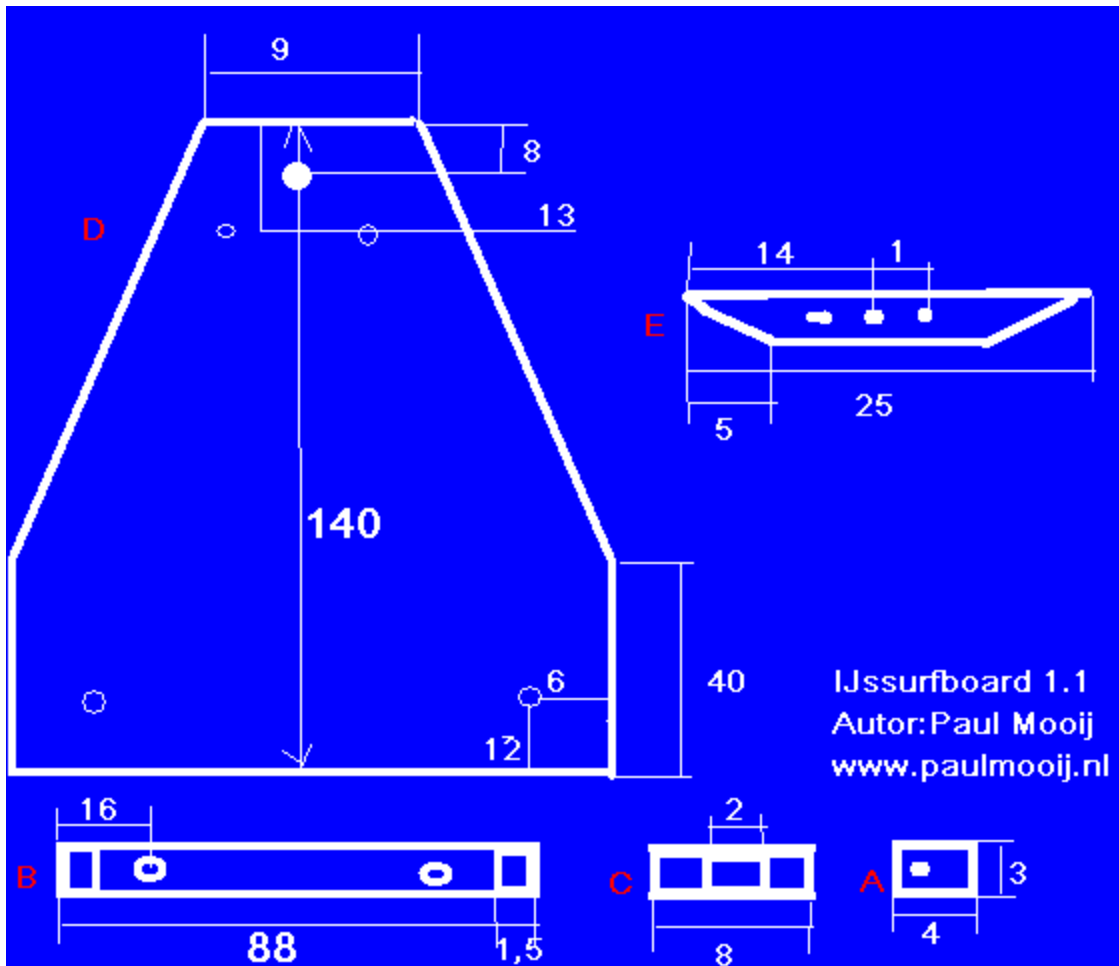
Wood triplex 140 x 95 x 2 (cm) l x b x d (< 95cm because it will fit in your car)
RVS/steel 208 x 3 x 0,5 (cm) (buy 220cm lengths)
M5 x 40 three + bolts use loctite !!!
M5 x 50 four + bolts use loctite !!!
Spacing PVC rings M6 ect

Equipment:

Power drill
Drill M5 (steel)
MIG welding
Girder
(CNC)

Accu drill
Drill M8 (wood)
Drill M5 (wood)

Blueprint



Building steps:

1 # Chop the wood 140x95 cm

Stands for the frame:

2 # Take six lengths 4x3 cm of **A** (see blueprint) en drill a M5 hole in it

3# Make a length of 88x3 cm and drill tow holes. Weld four **A** on **B**

4# Take length **C** 8x3 cm drill two holes and also weld two **A** on **C**

Now making the skates/Blades **E**

5# Make three lengths of 25x3 cm and grind it like a blade or put it in a cnc

Assembly

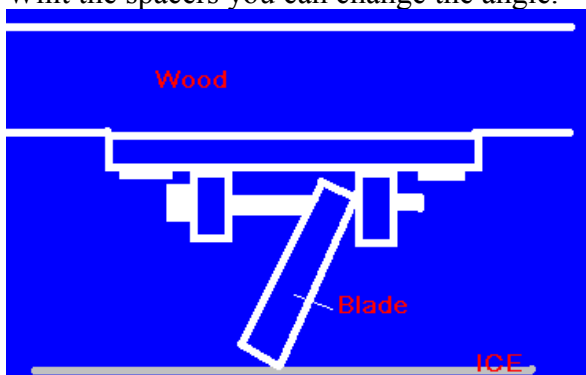
Drill four m5 holes in the wood **D** en put **AB+E** and **AC+E+E** put the m5 bolts in and drill a M8 For your base plate. Put blades in and don't forget spacers between blades.

My assembly



Tweaking:

Whit the spacers you can change the angle.



Also longer blades when going hard than 56 km/h :P