

Mini outriggers for kayak (stabilizers)

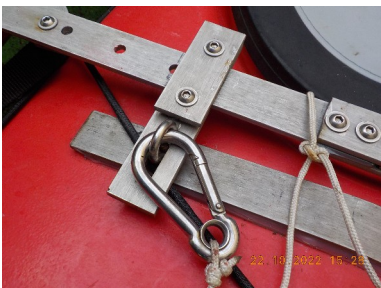
08-08-2023

Delta Wing model

Prototype wing in plywood 13 mm



Mounting system from previous models



Floats 110 mm diameter, 3 mm PVC
Length 50 cm + head
3D printed half sphere head
Mounted with PVC saddles and 50 mm 90° connection for side tube"

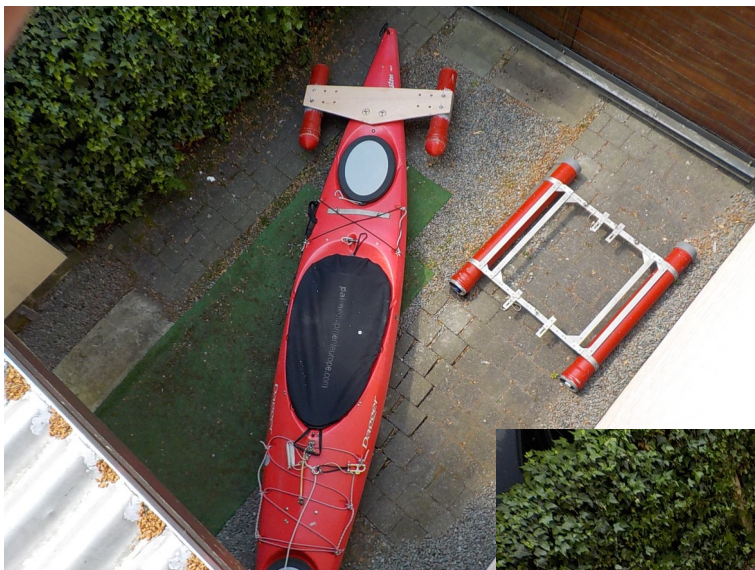




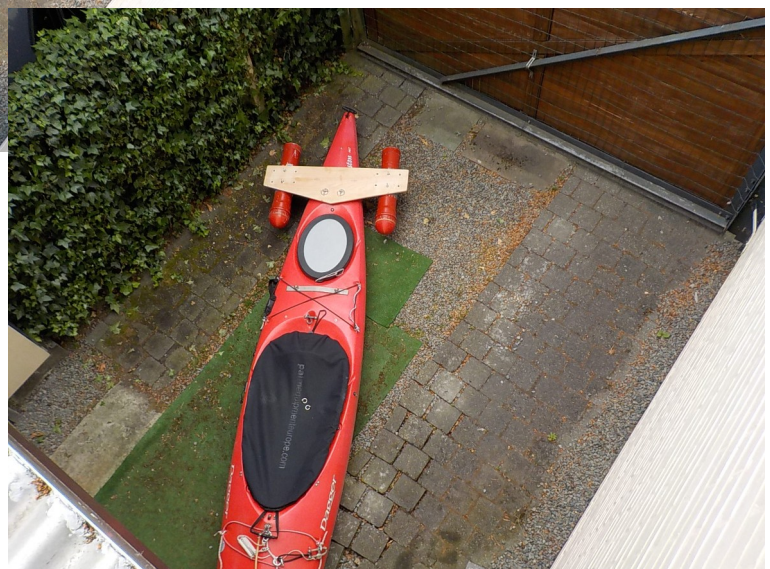
The mounting holes in the wing



Stern Delta Wings Floats mounted in broadest position (90 cm overall width)



Floats in medium position



Floats in smallest position



Cockpit Delta Wings Floats mounted



When a choice is made shorter wings for the stern position can be used. This way overall width is reduced to what is necessary.

Several combinations are possible but the maximum combination is a stern D wing with 4 floats (two at each side, only two showed on the picture) and a cockpit D wing with 2 floats.

Making a total of 6 floats.

Height of all the floats can be adjusted within some limits. I use them in the "no float" (just above water) position but if always some additional secondary stabilisation is wanted floats can be lowered so that they are in the water when in normal use.

There is always some additional drag, be it by the weight of the combination or the drag when the floats are in the water.



At this moment several tests are done with the wings. The wing may, compared with the stainless steel frame, behave differently in braking waves (some more downwards pressure I presume). This is not tested yet, nor is white water.

This test was with the stainless steel configuration (1m floats)



The plywood wings are sealed for water and the whole frame is painted. The wings can be equipped with lines, peddelclamps, heelhook peddelstrap etc, depending on the needs.

Of course there are numerous examples at the internet who served to develop the Delta Wings in combination with what I wanted or expected and within my (also DIY) capabilities.



All the tests, with the wings behind the cockpit and at the stern (broadest position) are positive. No unbalance that demanded an intervention was noticed.

<http://blog.seniorennet.be/kajak/archief.php?ID=2549963>

<http://blog.seniorennet.be/kajak/archief.php?ID=2553674>

<http://blog.seniorennet.be/kajak/archief.php?ID=2555890>





Wing: Material for final project: PE sheet hard – black – 10 mm (1000 x 495 x 10) Röchling

This material is not tested yet.

Paul

AKKC www.akkc.be