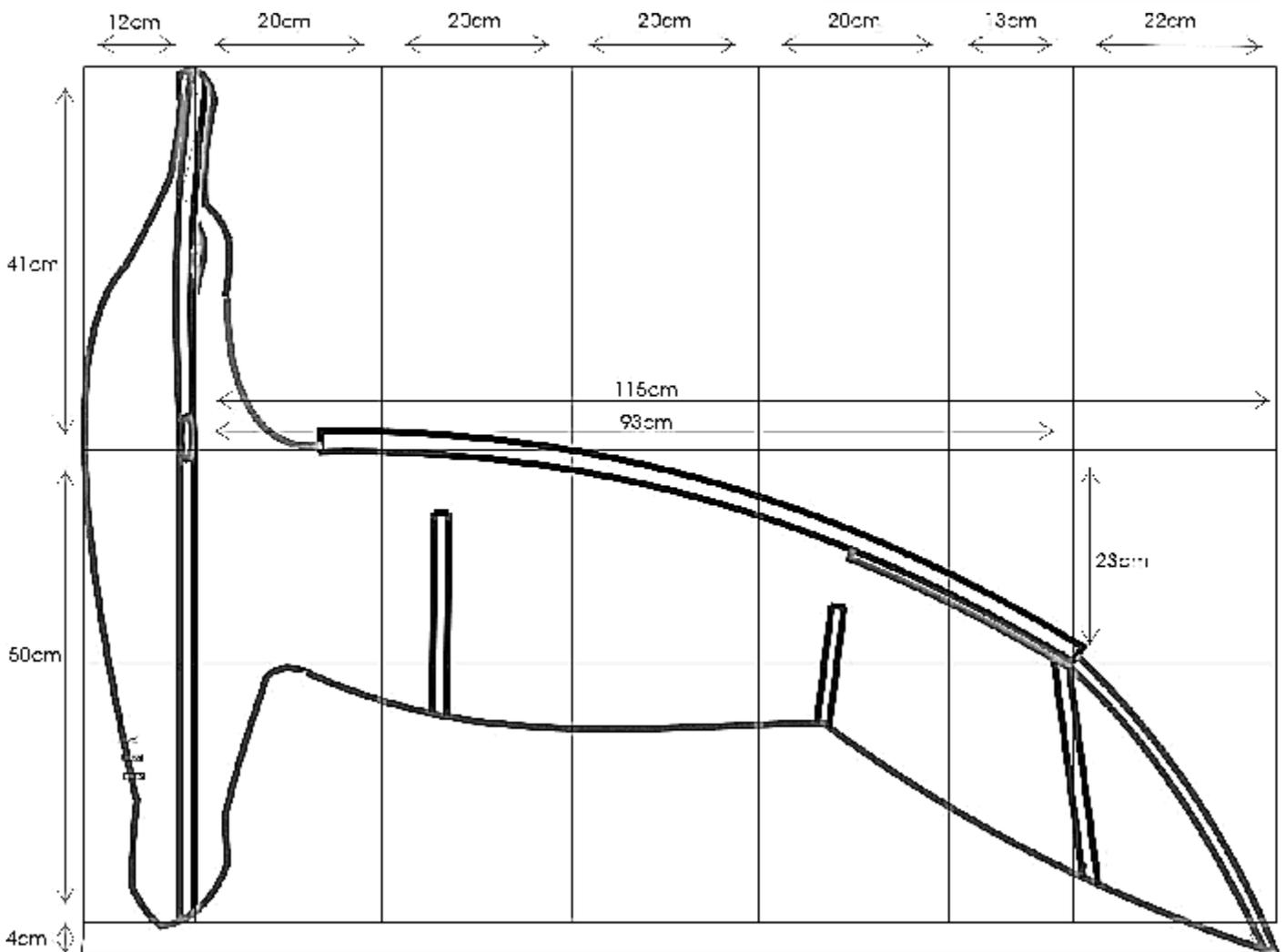


## Royal Albatross from New Zealand—Christophe Goy

A Bird Kite designed for steady winds. In July 2000 I found a structure system which imitated a birds wing . Here is the basic plan with which I made all of my prototypes using an Albatross as an example. It can be flown as a single or dual line kite without any bridle changes.

The system is composed of three lengths of carbon fibre 5 or 6 mm diameter according to your choice, plus 2 small lengths of carbon fibre 3 mm to make the end of the wings.

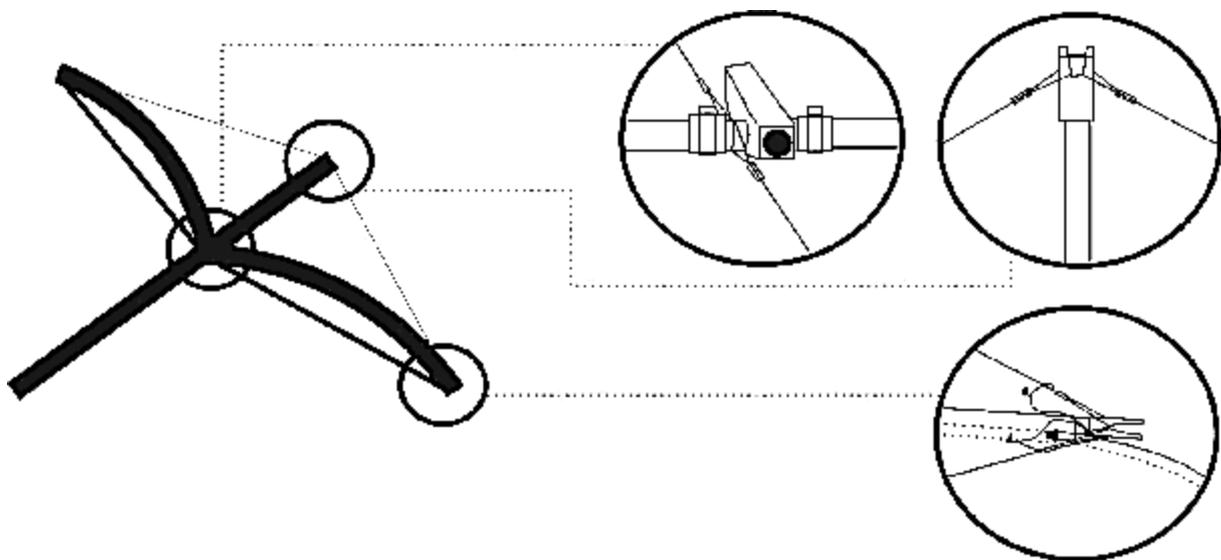
The spine is 92 cm. long, which has a plastic di-hedral. The spreaders of 1 metre each are inserted in the di-hedral. Then the wire is used to bend the two spreaders into an arch.



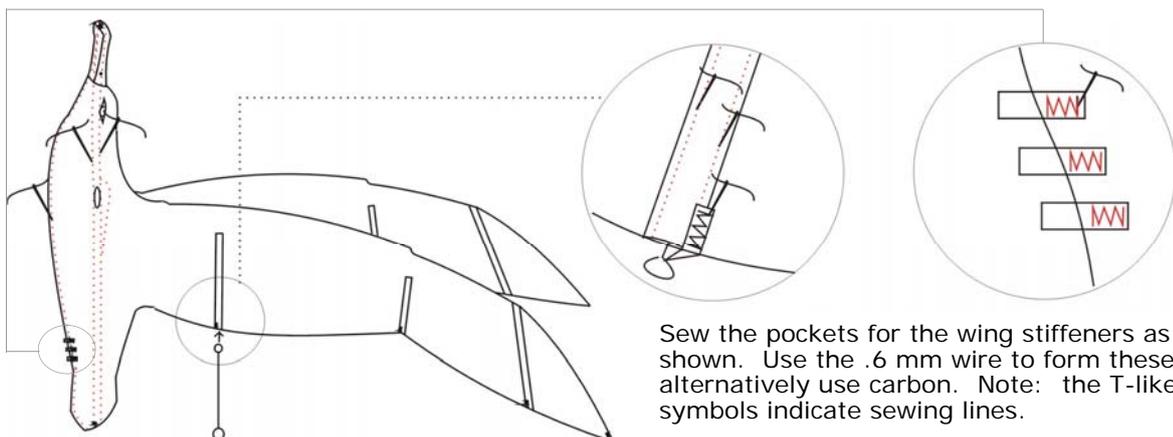
## Royal Albatross from New Zealand—Christophe Goy

The trick of the design is that when you pull the end of the bow to the front this also has the effect of twisting the bow downwards and thus creating the profile of the wing.

Frame: here is a view of the structure without the sail, prepare the 3 principal carbon lengths with the plastic dihedral. You will also need 6 metres of wire cable 0.6 mm (you can find the wire in angling or model shops) and 10 cm plastic aquarium tube to fit over the carbon lengths (5—6 mm internal diameter).



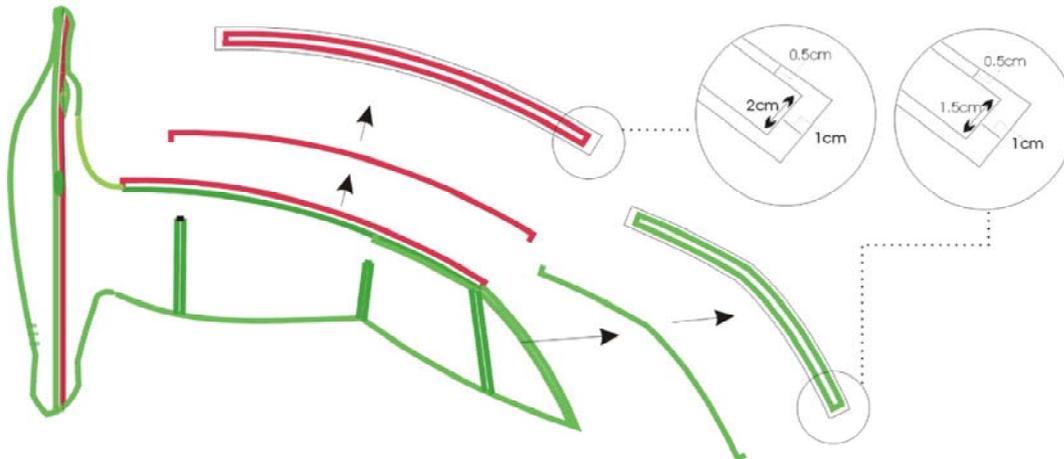
To make the wire frame: To determine how long the wires of the bow will be you should put the spreader in the dihedral (which is already mounted on the spine) and bend this rod with the wire. The distance between the spreader and the wire at its' widest point should be 8.5 cm. To secure the wire loops use small metal tube internal diameter 2 mm, and crimp to hold. When the first is ready, make a copy for the other side. Use the plan to cut the sail. Cut two pieces and sew together.



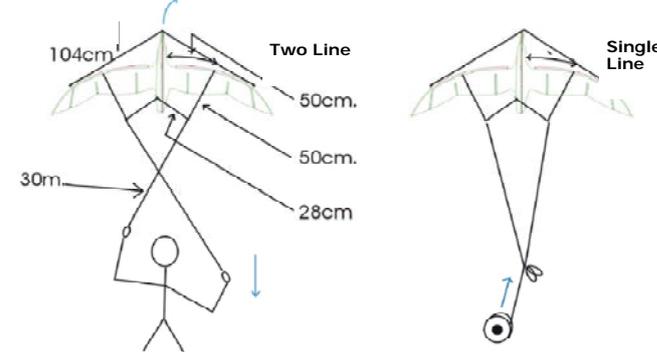
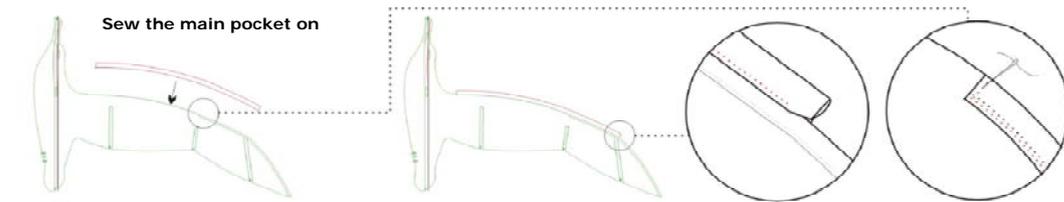
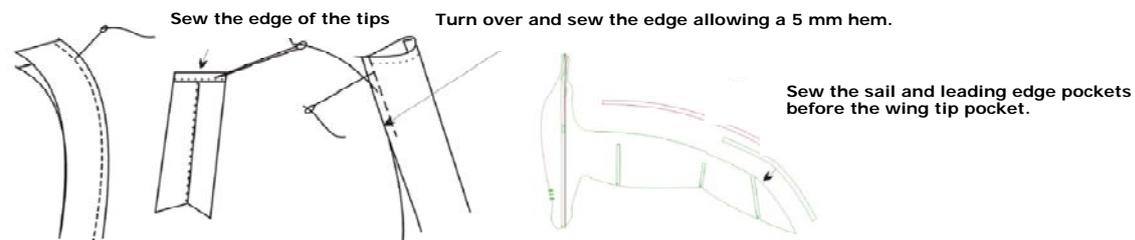
Sew the pockets for the wing stiffeners as shown. Use the .6 mm wire to form these alternatively use carbon. Note: the T-like symbols indicate sewing lines.

## Royal Albatross from New Zealand—Christophe Goy

Making the pockets for the leading edge. Use the lines on the plan to make the first one and use this to duplicate the others. Cut four pieces for the main pockets and a further four for the two pockets at the end of the wings. Sew the pockets as shown on the drawings.



Then sew the pockets as shown in the drawings below.



Use the plan as a base to create other similar kites.  
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 Translated from the French