X-wing Delta
By J.Claes

connection to X-frame
1550mm ramin
spar diam: 10mm

1863

730

2635

20

1318mm ramin
spar diam: 10mm

Top and bottom Sail
Basic dimensions

523

Ø70

Ø40

1045

1312

1318

Seam connection top sail to bottom sail
20mm wide to make spar pocket

Dacron reinforcement
arround passage for X-spar

587

49

24

20

815

10

20

1358

543

20

20

57

28

599

10

10

1463

1380

523

10

20

1318

1380

30 mm for wing spar pockets
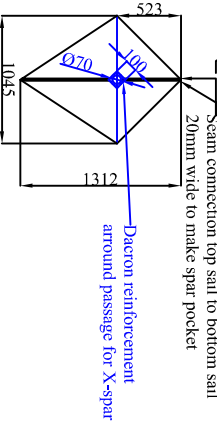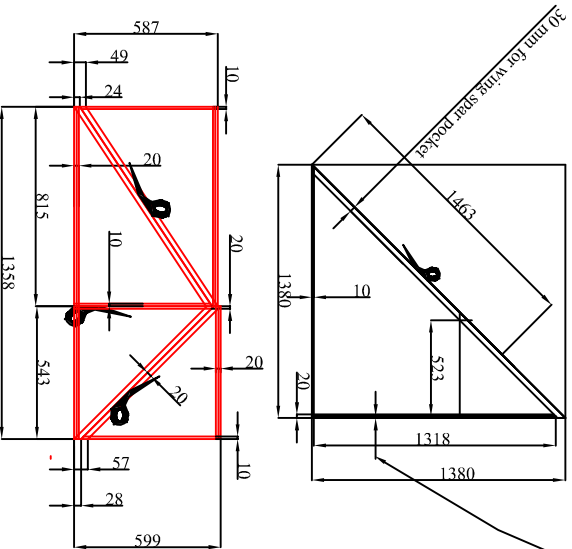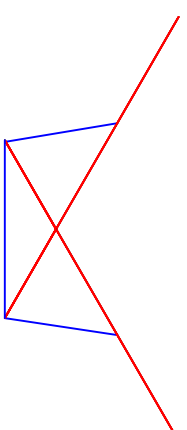
10 mm for seam allowance + 10 mm for spar pocket

The bottom pannels are
also cut out off a
1380 mm wide pannel.
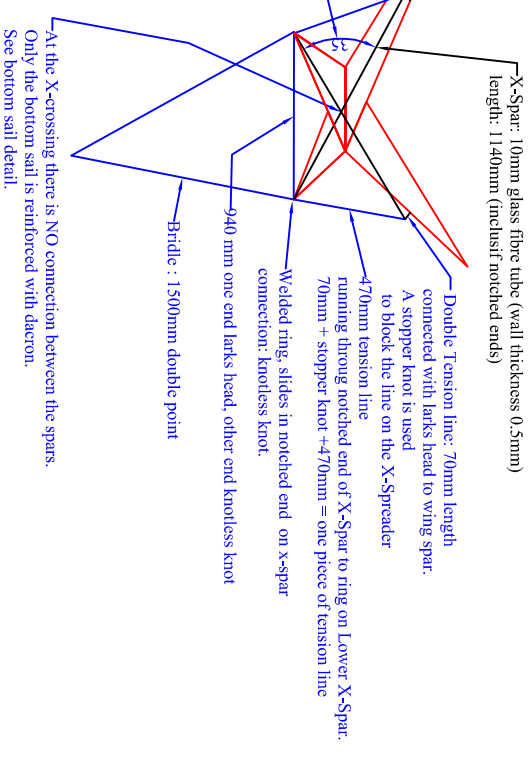Both bottom wings are
made out of 2 triangles.
This is the way to cut.

The bottom pannels are
sewing line where both left and right panels are
connected to each other.
Draw a line 20mm from the short side: this will be the
sewing line to connect top and bottom sails. Thus a spar
pocket is made.

Draw a line 10 mm from the short side: this will be the
sewing line where both left and right panels are
connected to each other.

Draw a line 10mm from the short side: this will be the
folding line for the trailing edge hem.

Draw a line 10mm from the short side: this will be the
folding line to make the wing spar pocket.

Draw a line 30mm from the long side: this will be the
folding line to make the wing spar pocket.

Cut it square and on the diagonal

Cutting templates:

These strange dimensions are the result from the way the
sail was cut:
I started from a 1380mm wide sheet.

angle between wings is approx.
angle is not that importand.
variation is possible:
strong wind: higher angle for
less pull in the line, more stability.
Just make sure the kite is symetrical

55

X-Spar: 10mm glass fibre tube (wall thickness 0.5mm)
length: 1140mm (inclusif notched ends)

Double Tension line: 70mm length
connected with larks head to wing spar.
A stopper knot is used
to block the line on the X-Spreader
470mm tension line
running throug notched end of X-Spar to ring on Lower X-Spar.
70mm + stopper knot +470mm = one piece of tension line

Welded ring, slides in notched end on x-spar
connection: knotless knot.

940 mm one end larks head, other end knotless knot

At the X-crossing there is NO connection between the spars.
Only the bottom sail is reinforced with dacron.
See bottom sail detail.

Bridle : 1500mm double point