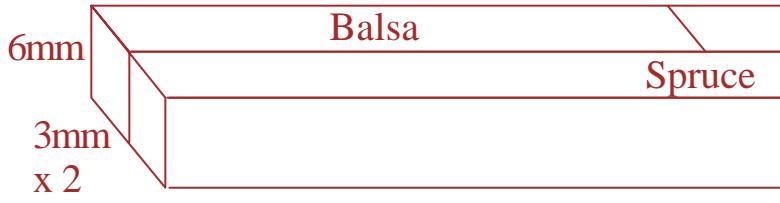
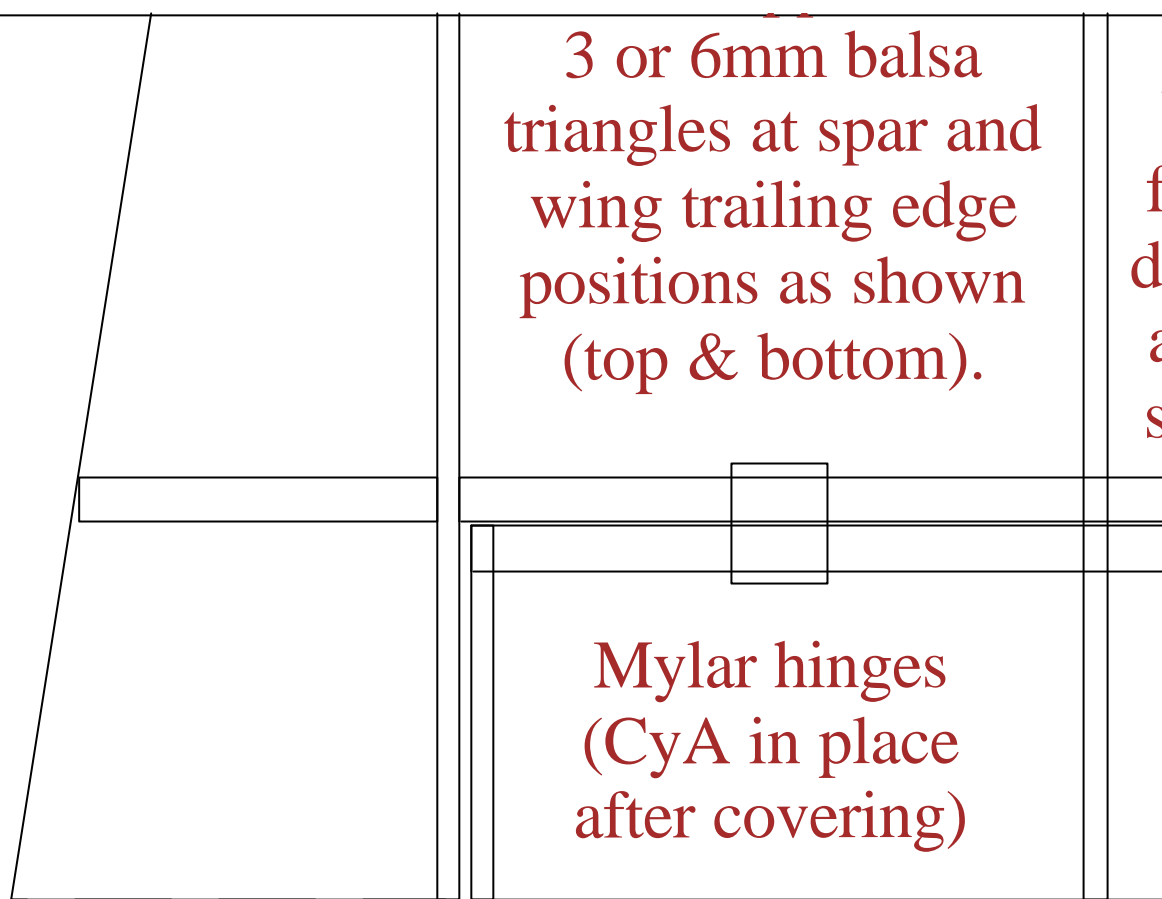


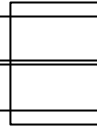
"Accuracy Measure" (line should be +/- 200 mm)



'Bubble done w in MS-'

join. Do same with bottom spar but start from other side. This doubles spruce content across centre for max strength, least weight.

Trailing edge of wing capped top and bottom with 0.8x12mm soft balsa to help secure to ribs (not considered essential).




Spruce

Balsa

Example of 1 full length of wing

s' name on wing with 'Snap ITC' font Word 2000.

Control Movements:  
Ailerons - 15mm each

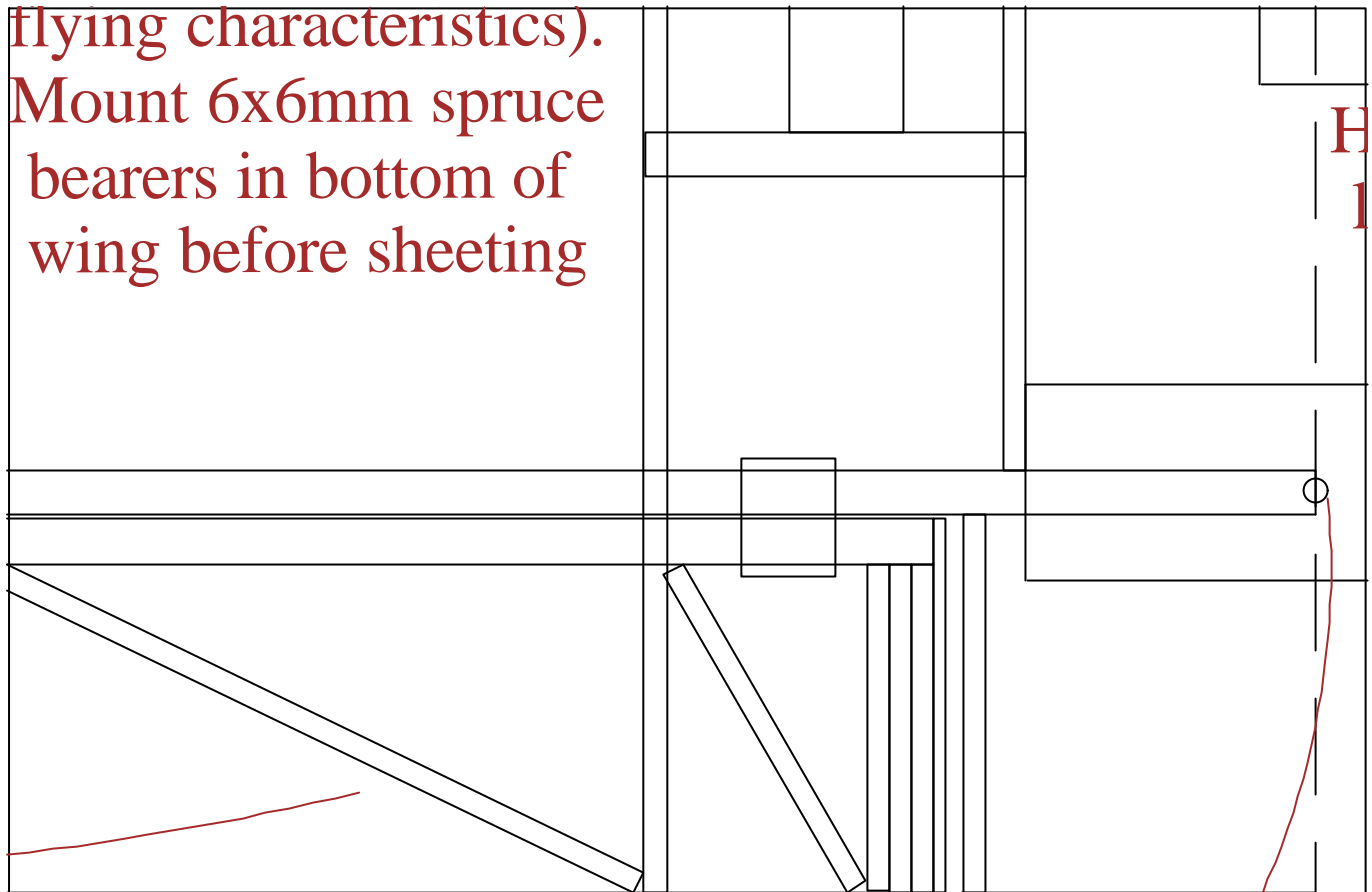
<p>take pressure from Solarfilm. All ribs same size. Can reduce number of ribs to save a little more weight</p>	<p>0.8mm = 1/32"  1.5mm = 1/16"  2.5mm = 3/32"  3mm = 1/8"  6mm = 1/4"  9mm = 3/8"</p>
	
<p>Ailerons are sheeted top and bottom with 0.8mm soft balsa</p>	<p>3mm light balsa doublers and diagonals to spread load and stiffen root</p>

assembled spar  
ing (not to scale).

way

**Bubbles**  
**Copyright:**  
**David Theunissen**  
**November 2002**  
**(Version: j)**  
[www.flyelectric.ukgateway.net](http://www.flyelectric.ukgateway.net)

flying characteristics).  
Mount 6x6mm spruce  
bearers in bottom of  
wing before sheeting



Servo horn

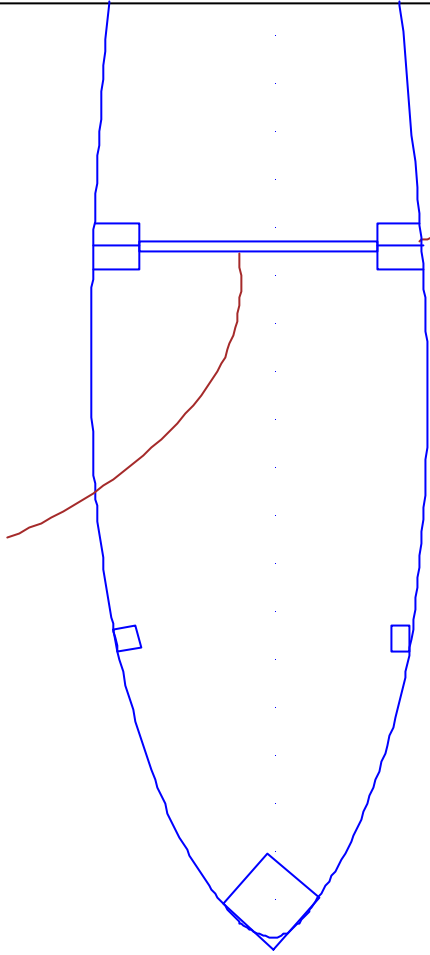
Central hole for self-tapping screw  
to retain wing to fus

1.5mm ply on top of wing to spread load of  
Fill inside wing with soft balsa under this p

hole for servo leads if req'd



1.5mm balsa web



Balsa/spruce lamination

of mounting screw.  
plate to further spread load.

Wing dimensions not critical  
but prototype is 630mm  
this line to centre of wing

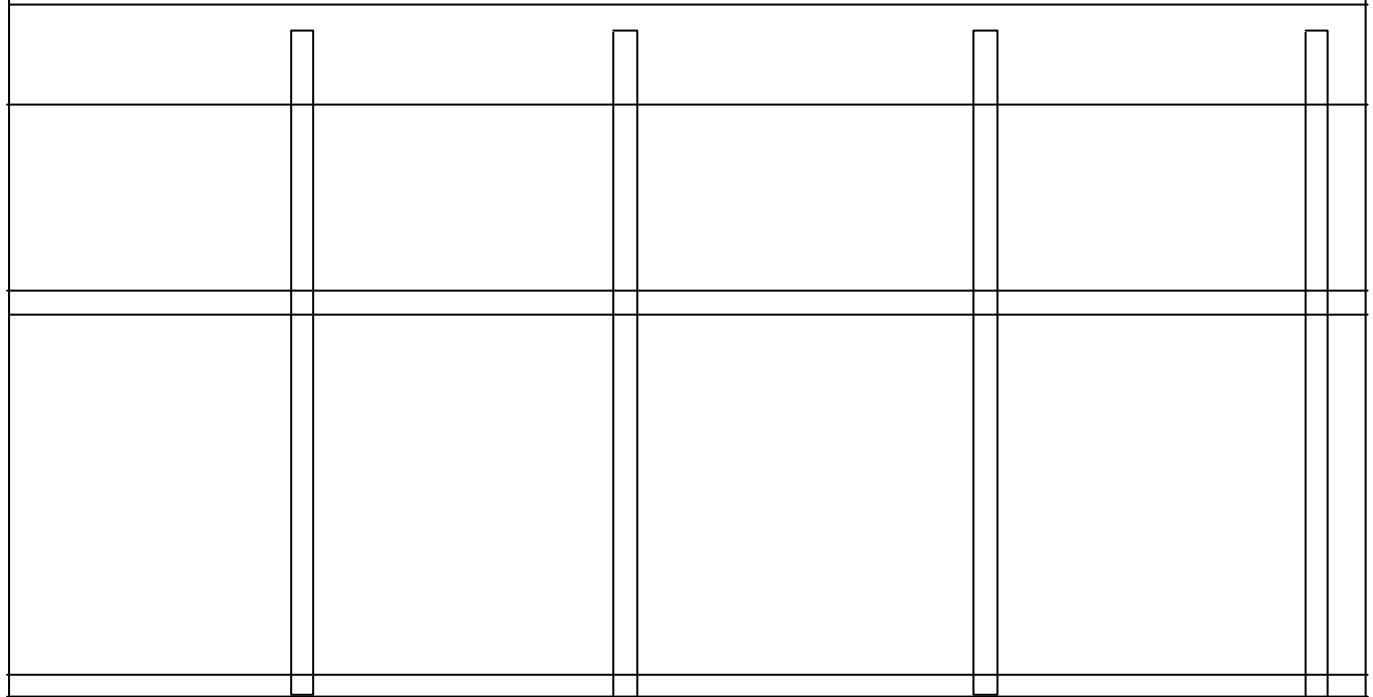
Webbing: 1.5mm  
vertical grain balsa  
full length of wing.

Wing tips: 3mm soft  
balsa. Support with

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Leading edge: 9x9mm soft balsa set  
ribs at approx 45'. Sand front edge re

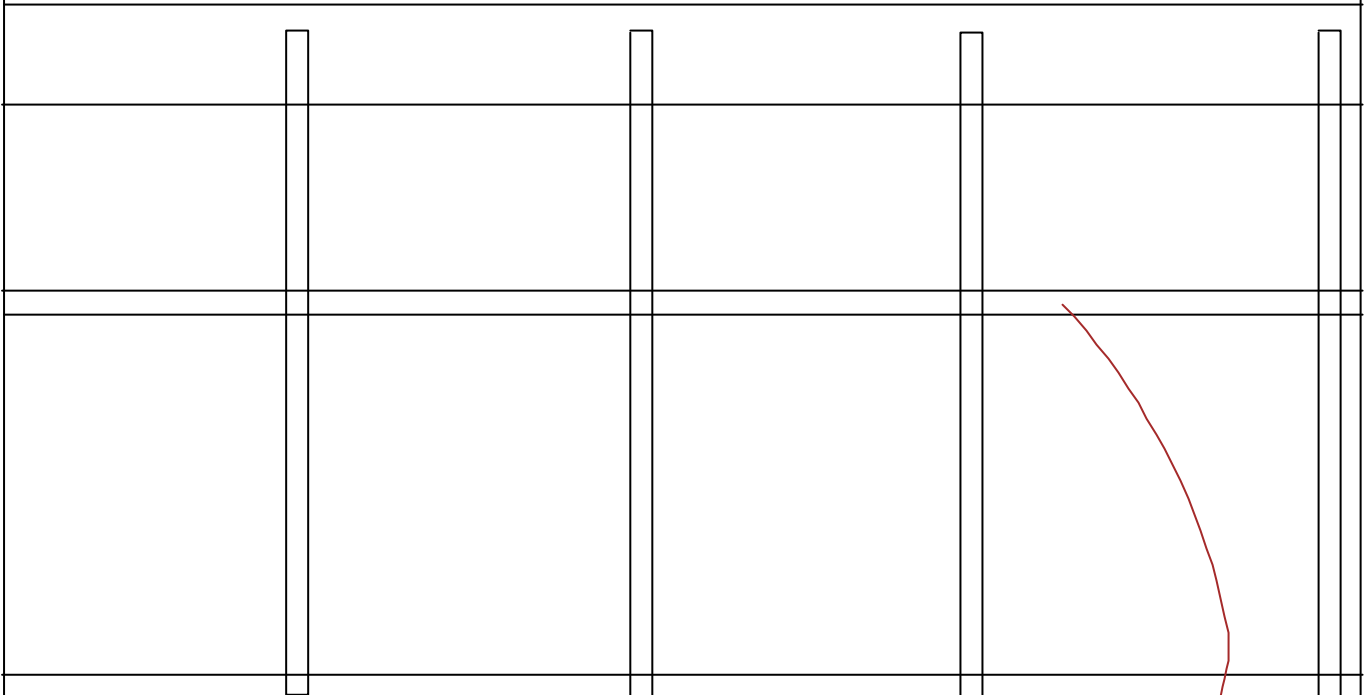


Spars: One 3x6mm  
36" or 1000mm long)  
spruce top and bottom,  
with 3x6mm medium  
balsa to double up  
start top spruce from  
ft tip and pass through  
wing centre without

Trailing edge of wing  
and leading edge of  
ailerons is 6mm medium  
balsa. Angle to leave  
gap at bottom for  
aileron movement, or  
mount square and bevel  
aileron leading edge.

into  
ound.

Prototype covered in clear Solarfilm



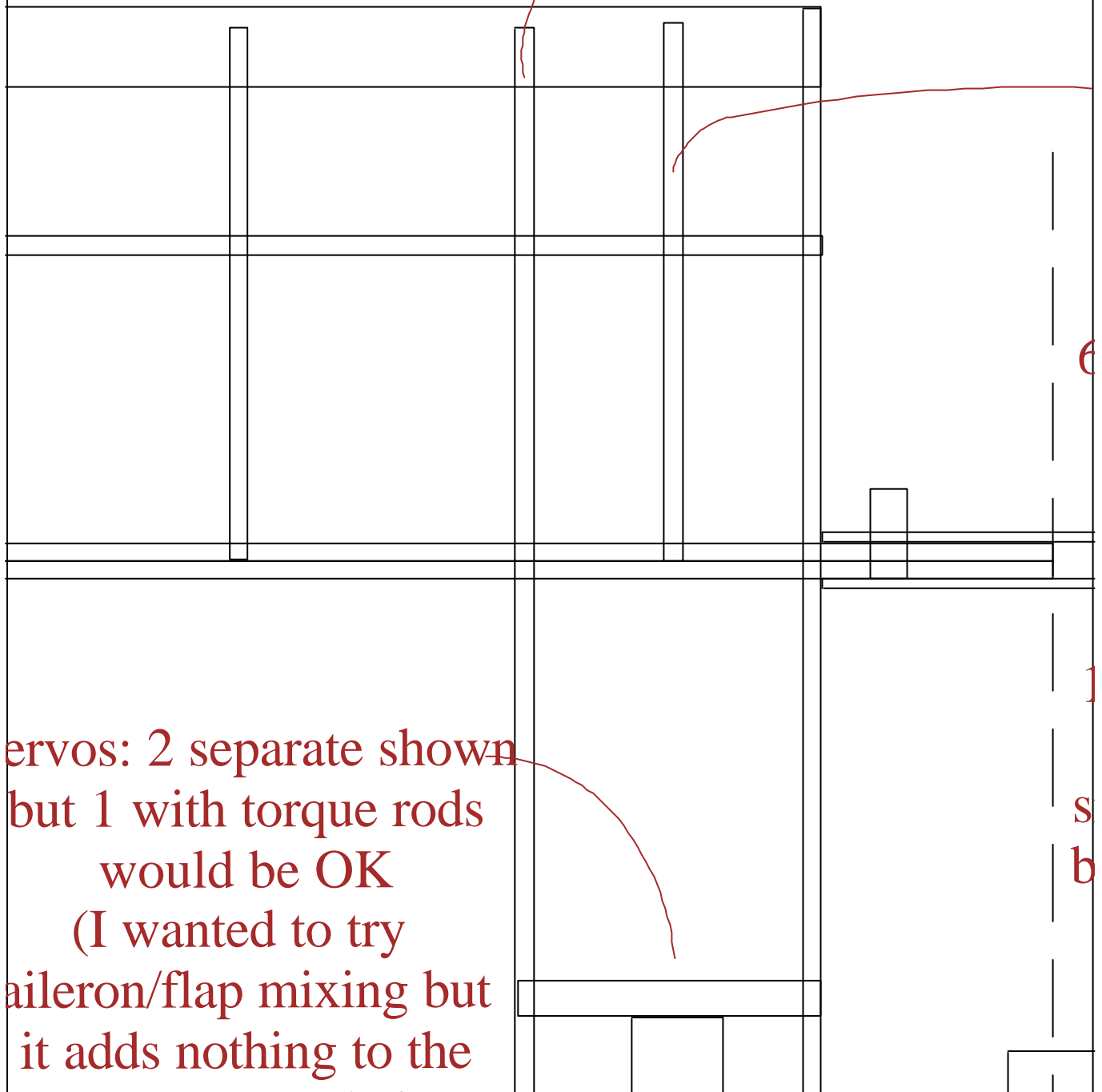
Ribs: 2.5mm balsa is easiest and reasonably light. Can use 3mm Depron but then need compression spars or cap strips to

Turbulators: 3mm hard balsa to give wing a little more torsional rigidity and to smooth airflow (req'd top and bottom).

Approx sizes:



Sheet wing centre with 0.8mm soft lead  
(mainly to aid carrying and to hide leads). I  
being thicker at centre



balsa to this rib  
Don't worry about wing  
t.

Extra half rib to  
strengthen wing for  
carrying by hand

5mm hardwood  
dowels (2)

1.5mm ply doublers  
epoxy'd to both  
sides of spars (top to  
bottom of wing). Fill  
gap with balsa.

