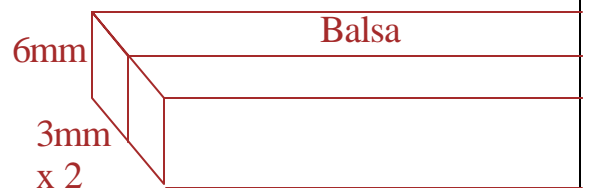
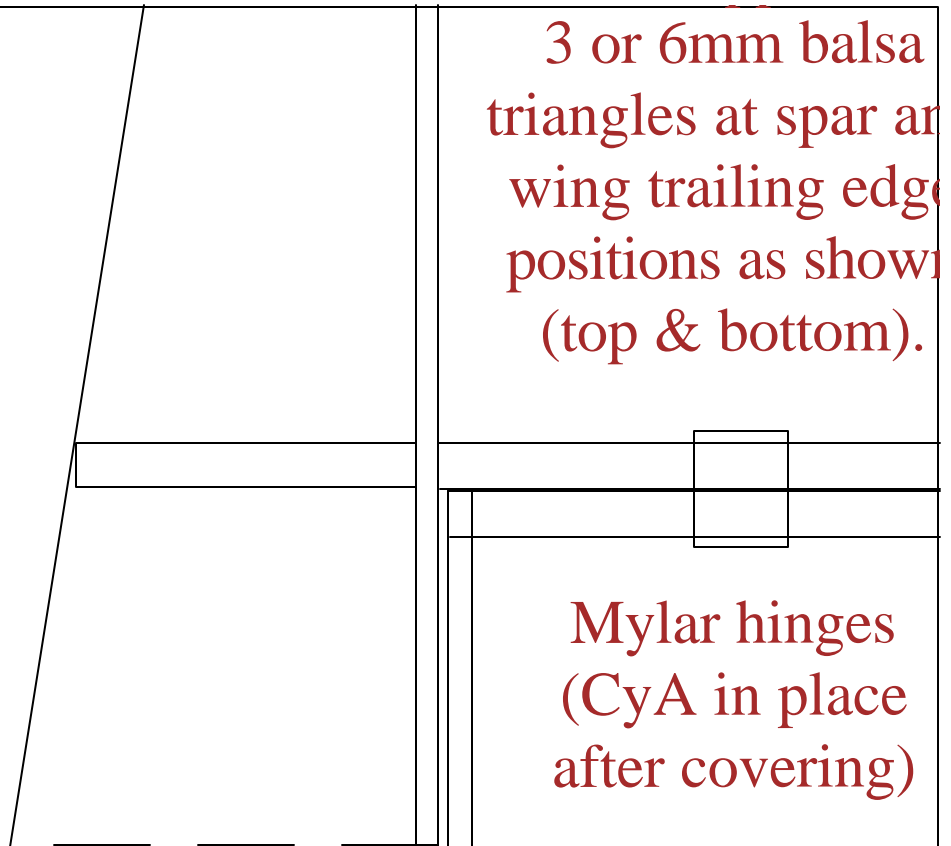
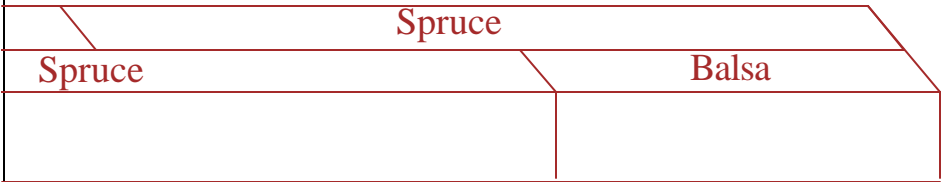


"Accuracy Measure" (line should be +/- 200 mm)



1
d
i

| | | | | |
|---------------|--|--|--|--|
| and e n | | 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) |
| | | | | |
| | | | | |
| | | | | |



Example of
full length of

Bubbles' name on wing
done with 'Snap ITC' font
in MS-Word 2000.

Control Movements:
Ailerons - 15mm each

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

1 assembled spar wing (not to scale).

n way

Bubbles

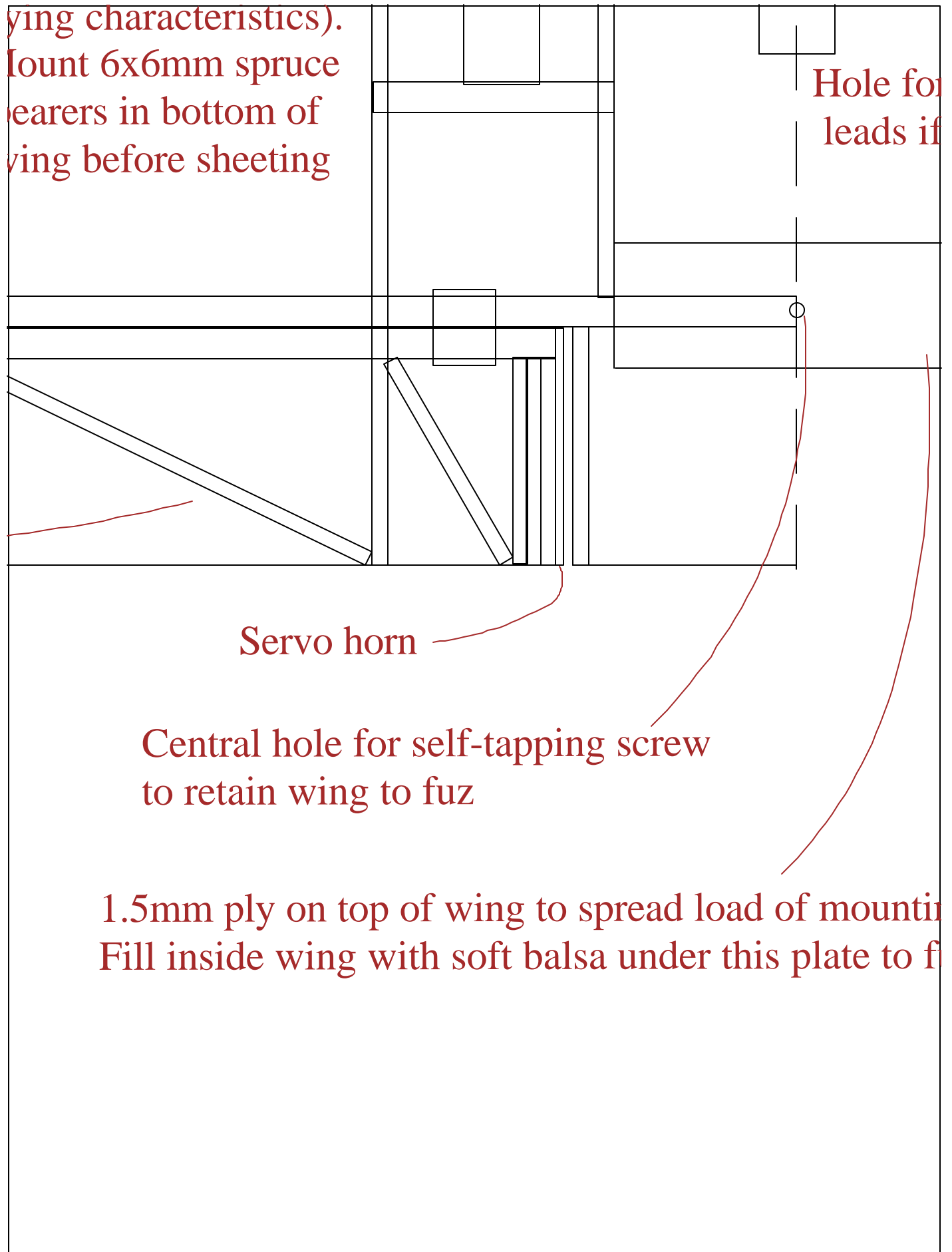
Copyright:

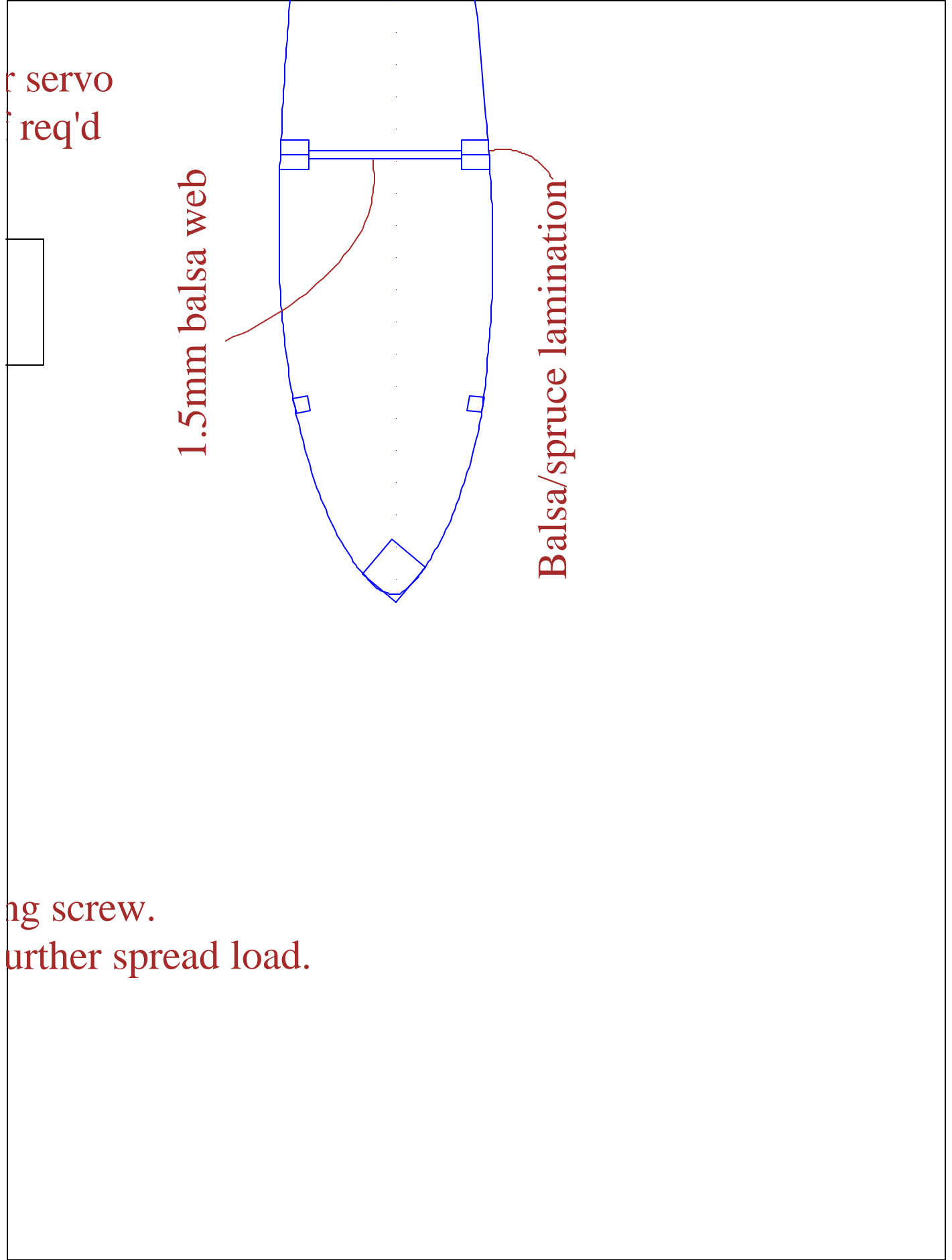
David Theunissen

November 2002

(Version: j)

www.flyelectric.ukgateway.net





servo
req'd

1.5mm balsa web

Balsa/spruce lamination

ng screw.
urther spread load.

Wing dimensions
but prototype is 63
this line to centre

Webbing: 1.5mm
vertical grain balsa
full length of wing

Wing tips: 3mm square
balsa. Support with

not critical
30mm from
e of wing

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

not critical
30mm from
e of wing

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

[illegible]

et into
round.

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

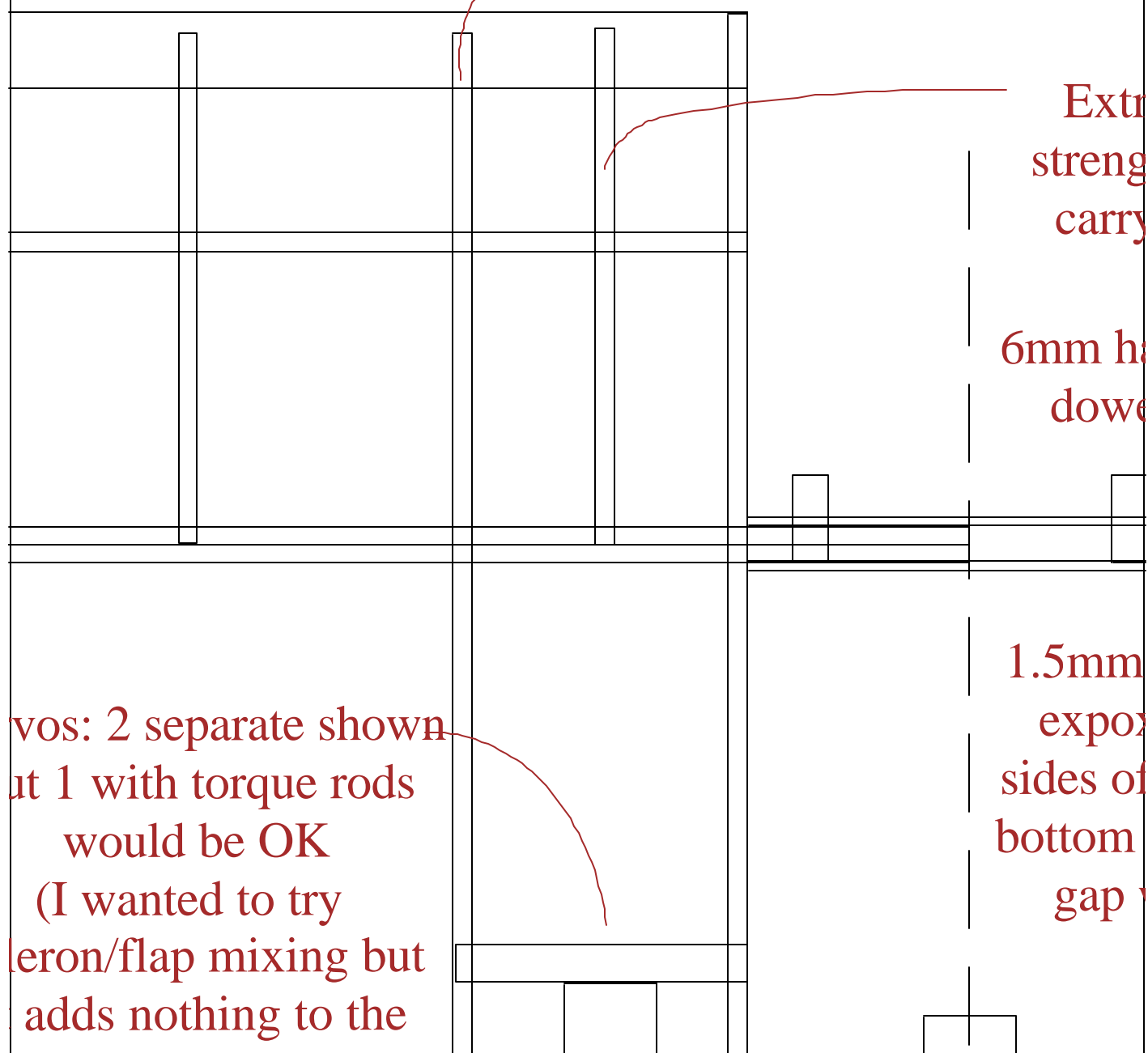
Turbulators: 3mm
hard balsa to give wing
a little more torsional
rigidity and to smooth
airflow (req'd top and
bottom).

Approx sizes:

Ser
bu

ail
it

Sheet wing centre with 0.8mm soft balsa to
(mainly to aid carrying and to hide leads). Don't want
being thicker at centre.



• this rib
orry about wing

a half rib to
then wing for
ving by hand

ardwood
els (2)

ply doublers
xy'd to both
f spars (top to
of wing). Fill
with balsa.

